AR TARGET SHEET

The following document was too large to scan as one unit, therefore, it has been divided into sections.

EDMC#: 0076454

SECTION: 2 of 2

DOCUMENT #: 08-AMCP-0119

TITLE: ADMINISTRATIVE

DECOMMISSIONING FOR WELLS WITH SURVEYS

699-40-28 A8639

### WELL NAME 699-40-28	WELL ID	A8639	NORTHING	135715.743	FIELD ORDER NO	
MOST WELL ID	WELL NAME	699-40-28	EASTING			1/1/1004
GW OPERABLE UNIT 200-PO-1 PROGRAMS WASTE SITES SIGN WASTE STORAGE(S) LAST MEMPEORITON LAST MEMPEORITON VES NO ✓ NO WELL PAD VES NO ✓ NO WELL PAD WELL PAD VES NO ✓ NO WELL PAD WEL	HOST WELL ID		ELEVATION		_	1/1/1801
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YES NO	KEFERENCE MARK IS TOC	: '' YES	□ NO 🛂 ND	REFERENCE MARI	K IS TOC	YES NO

WELL ID WELL NAME OST WELL I	A8639 699-40-28	NORTHING EASTING ELEVATION	135715.743 581291.814 164.058	LAST INS		1/1/180	1
GW OPERABL PROGRAMS WASTE SITES WM PLAN(S) WASTE STORA	50FT	DRILL DATE	3/31/1980	CONST D			
		WELL ATTRI	BUTE COMME	NTS			
		CASING I	NFORMATION				
SIZE/UNITS	TOP/BOT/UNITS	MATERIAL	TYPE	CONNECTION	THICKNESS/L	JNITS	REMOVED
SIZE/UNITS	TOP/BOT/UNITS		NFORMATION				
SIZE/UNITS	TOP/BOT/ONITS	MATERIAL	Т	YPE	SLOT SIZE/UI	NITS	REMOVED
CHANGES							
		PERFORATION	INFORMATIO	ON			
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CHANGES						!	

	WELL NAME WELL T		COORD:	INATES PLANT	CASING ELEV WELL DIAM	DRILL_DEPTH COMPL_DEPTH		PERF	/SCREEN		COMMENTS	PAGE 309
	PUMP T	YPE	NS/EW	NS/EW	DATE COMPL	DEPTH_WATER	TYP	E DIAM	TOP	Bot	PREVIOUS WELL NAMES	
	699-40-21 SW	1		40093.00 -21445.00	471.36 6.0 12/80	100.0		<u>-</u>			GOLDER 77	
	699-40-28 UN			40076.00 -28220.00	534.77					<u> </u>		
•	699-40-32			Hanford	Wells							
	699-40-33A		Prepai	PNL-8800 A.Chamness August red for U.S. Deportract DE-AC06	1993 ot of Energy und	der	P	8.0	106.0	185.0	GOLDER 45 CEMENT PLUG AT 165 FT. 699-40-33, 699-40-35	
	699-40-33B	Pacific	NW Lab b	y Battelle Mem	orial Institute		P	6.0	233.0	273.0	GROUTED	
	699- 4 0-33C				518.00 6.0 4/76	160.0					699-40-33C ABANDONED.	
	699-40-36 GW H	5	135633.84 578789.25	39830.00 -36432.00	528.92 4.0 12/92	280.0 219.5 115.2	s	4.0	209.2	219.5	699-40-33B ALSO ECN 169851	
	699-40-39 GW H	1 5	.35645.70 i77938.50	39877.90 -39224.30	541.84 4.0 8/89	212.0 212.0 125.3	s	4.0	201.0	211.5	SCREEN BP-5	
	699-40-40A GW H		35594.31 77680.25	39710.40 -40071.50	541.21 4.0 10/91	227.0 226.1 130.0	s	4.0	215.1	225.9		
	699-40-40B GW H	1 5	35609.89 77677.65	39761.40 -40079.80	542.18 4.0 10/91	198.6 198.6 1 4 0.6	s	4.0	187.8	198.6		
	699-40-62 GW S			40300.00 -61500.00	747.78 8.0 1/49	384.0 364.0 356.0	P P	8.0 8.0	335.0 359.0	348.0 374.0	TELEPHONE EXCHANGE WELL PLUG 364-369' 40.3-61.5	. CEMENT
	699-40-80 AB		বেছ	39665.00 -79978.00	655.50 6.0 2/82	559.0 550.0					BWIP WELL DESTROYED, CAI 5.5' BELOW GROUND RRL-9	WELDED

Page 1 of 1 fWIS again

HWIS Interface - Survey Information - Horizontal

WELL_ID	WELL_NAME	SURVEY_CONTRACTOR	DATUM_TYPE	SURVEY_DATE	MEASUREMENT_METHOD	NORTHING	EASTING	SURVEY_UNITS	
A8639	699-40-28	UNKNOWN	NAD83	01/01/1801	CONVERTED	135715 743	581201 814	_	
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Query HWIS again

AWIS Interface - Well History Information - Drilling

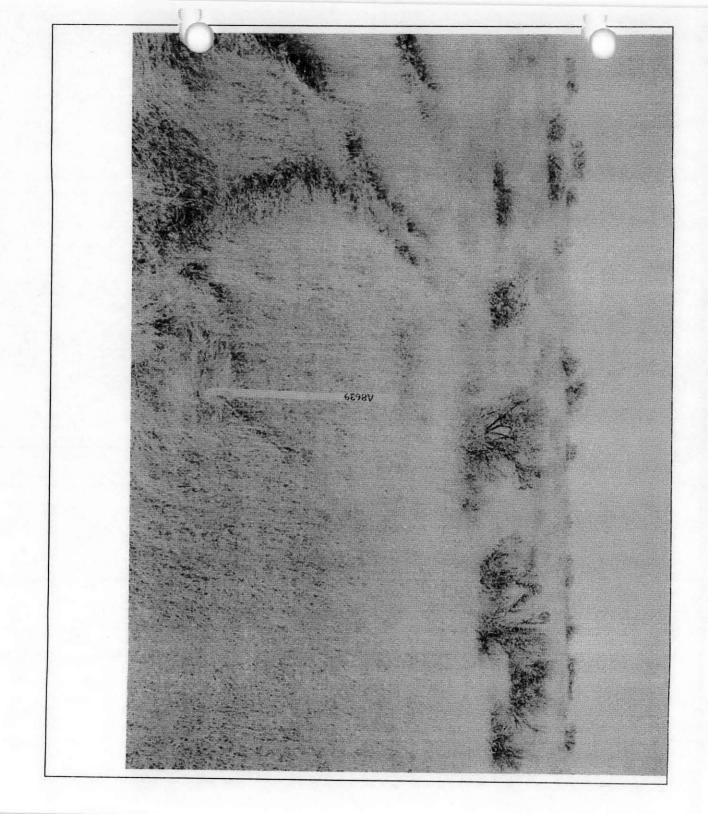
WELL_IC	WELL_NAME	DRILL_DATE	START_CA	RD_NUMBER	DRILL	_DEPTH	DRILL_DEPTH_U	NITS COMMI
A8639	699-40-28	03/31/1980	<u> </u>					
11.1 and 12.4 or April 10.00 A SECULATION	the Andreas and Association (Association of Association) and Associated and Associated A	\$ 4.000\right{\text{2.5}} \text{2.000} \text		Commence of the Commence of the American Security of American Security of the Commence of the	TO DESCRIPTION OF THE PROPERTY	to a complete same sharmed continued	DOZNO AK (PROJECTE BANKETE PROMENOMEN PROGRAM PROJECTE SER AN AND PROJECTE SER AND AND PROJECTE SER AND AND PROJECTE SER AND	AT SCHOOL COME TO LAND STREET OF THE STREET

	SURVEY DATA R	EPORT	1-	-28	i	equest No. -029	
Project No.	Title: Well Decommissioning A8639	699-	HO		1	le No. AT12R27	
Jöb No. 65400811.1225400 CA10	Prepared By Tim Johnson	Date 11/1/200		Reviewer	<u>.</u>		Page 1 of 1
	DESCRIPTION OF WORK		DIST	RIBUTION	SDR	PLOT	DWG
Attempt to locate Well A	A8639 at coordinates given. If found	obtain coordinate	Survey	/ File	OR		
and ground elevation. It	f different than coordinates given, obteport. If not found, set hub and lath a	tain photo and	B. Hov	ward	1		
Schonstedt Metal Dectct	for for possible casing. Probe with sh	and search with	G.G. K	Celty	1		
detected.		lovel ii signai is	E.C. R	afuse	1		
Horizontal Coordinate S	ystem: WCS 83S/91 (Meters)		W.D. V	Webber	1		
Vertical Datum: NAVD8 Equipment Used: Trimble			S.H. W	orley/	1		

SURVEY RESULTS AND COMMENTS

Name	Northing	Easting	Description
A8639	135715.74	581291.81	No well found. Set hub and lath. Took photo. No signal detected with metal detector.

NOTE: This Survey was performed under the supervision of a Licensed Professional Land Surveyor registered in the State of Washington.



E-NW-246 (09/04)

	SCAN DATA	REPORT				Request No.: 081-057	
Project No.:	Title: Well Decommissionin	g A8639	· · · <u> · · · · · · · · · · · · · · </u>		.=	File No. : 600C-001	···
Job No.:	Prepared by:			Date:	Reviewe	r:	Page
65400811.1225400 CA10	Tim Johnson			11/1/07			1 of 1
DESCRIPTION OF WORK: Perform gattempt to locate possible buried w				DISTRIBUTION	SDR	SKETCH	DWG
shovel. If buried casing is found of	btain coordinates with C	GPS. Take ph	oto.	Survey File	OR	OR	
Obtain information for WAR Report obtain coordinates of signal.	ort. If not found withing	g reasonable d	lepth,	E.C. Rafuse	1		
				S.H.Worley	1		
				B.J. Howard	1		
			G.G. Kelty	1			
				W.D. Webber	1		
DATE OF FIELD INVESTIGAT	FION: 10/25/2007	T					
Weather: Temp 60°F V	Vind 5 MPH	Soil Condition	ons:	Rocky Sar	idy [Wet 🔀	Dry
Cloudy Clear P	P. Cloudy Fog	Depth of Inv	estigation	5 feet			
Equipment Heads				Functional Checks Completed	_	-	
Equipment Used: 50/60 Hz detector (for en	ergized lines)			Completed			
Radio Frequency Electron							
Ground Penetrating Rada							
	istedt Metal Detector		\boxtimes				
			L	F***			
GPR Antenna(s) Used: Documentation Provided:	1000 MHz	500) MHz	400 MH	Iz ———	300	MHz
Documentation 1 toyleed.							
Limits of Investigation: 20 foot dia	ameter.						
EQUIPMENT LIMITATIONS:							
Objects made of concrete, clay	pipe, PVC pipe, and fil	berglass pipe	are genera	lly not detectable.			
2. The transducers have a horizon 500 MHz is within 1 ft. of an e 3 ft. of an existing structure.	ntal scanning limit to ex existing structure; the 40	isting structur 00 MHz is wit	res: the 10 thin 1 ft. of	000 MHz is within 6 f an existing structur	in. of an e; and th	existing stri e 300 MHz	ucture; the is within
Discussion of Findings: Client is a equipment limitations, soil /concret objects to be missed or incorrectly employees, staff and management for injury or property damage. Contract of significant signal was observed.	te conditions, utility cong located. Client assumes or application of safety of tor shall not be liable for	gestion and of such risk. It i controls durir	ther factors s critical thing excavati	s beyond Contractor hat Client delegate re con,cutting or drillin	control i esponsib g activiti	may cause so ility to its es to preven	absurface t physical

699-56-26A A8879

WELL ID	A8879		NORTHING	140510.505	FIELD ORDER NO		
WELL NAME	699-56-26A		EASTING	582035.268	LAST INSPECTION	1/1/1	801
HOST WELL ID			ELEVATION	125.736	CONST DATE	-, -, -	
GW OPERABLE UNIT	100-FR-3	•	DRILL DATE	8/31/1971	CONST DEPTH		
PROGRAMS	100			0/32/13/1	CONST DEPTH		
WASTE SITES 50FT							
WM PLAN(S)							
WASTE STORAGE(S)							
LAST IN	SPECTION INFO	RMATIC	N	CUI	RRENT INSPECTION IN	FORMAT	ION
WELL PAD	<u> </u>	YES	□ NO 🗹 NI	WELL PAD		☐ YES	NO
BRASS SURVEY MARKER		YES	□ NO 🗸 N	BRASS SURVEY	MARKER	YES	NO
MARKER STAMPED WITH	SURVEY DATA	YES	□ NO 🗸 NI	MARKER STAMP	ED WITH SURVEY DATA	YES	NO
MARKER STAMPED WITH	H WELL ID DATA	YES	□ NO 🗹 NI	MARKER STAMPE	ED WITH WELL ID DATA	YES	NO
WELL LABELED WITH W	ELL ID	YES	□ NO 🗹 NI	WELL LABELED V	WITH WELL ID	YES	NO
WELL LABELED WITH W	ELL NAME	YES	□ NO 🗹 NI	WELL LABELED V	WITH WELL NAME	YES	NO
PROTECTIVE POSTS		YES	□ NO 🗸 NI	PROTECTIVE PO	STS	YES	NO
REMOVABLE POST IN PL	ACE	_ YES	□ NO 🗹 NI	REMOVABLE POS	T IN PLACE	YES	NO
WELL LOCK		_ YES	□ NO 🗹 NI	WELL LOCK		YES	NO
WELL DAMAGED	:	YES	□ NO ✓ NI	WELL DAMAGED		YES	NO
WELL IS DRY		☐ YES	□ NO 🗹 NI	WELL IS DRY		YES	NO
PARTED CASING		YES	□ NO 🗹 NI	PARTED CASING		YES	NO
BENTONITE IN WELL		YES	□ NO 🗹 NI	BENTONITE IN V	VELL	YES	NO
WELL SANDED IN		YES	□ NO 🗹 NI	WELL SANDED IN	V	YES	NO
COLLAPSED CASING		YES	☐ NO 🗹 NE	COLLAPSED CAS	ING	YES	□ NO
EQUIPMENT IN WELL		YES	□ NO ☑ NE	EQUIPMENT IN V	VELL ;	YES	NO
DEBRIS IN WELL		YES	□ NO ✓ N	DEBRIS IN WELL		YES	NO
SURFACE EROSION		MAJC	R 🔽 NE	SURFACE EROSIG	NC	MAJO	R
		MINC)R			MINO	R
<u> </u>		NONE	<u> </u>		l	☐ NONE	
1.00	PUMP INFORMA	TTON			CURRENT PUMP INFO	MATTAN	
LASI	POMP INFORMA				CORRENT PUMP INFOR	CHAILON	
PUMP ACTIVITY PERFOR			ALLED V NO				ILLED
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WELL ID	A8879	NORTHING	140510.505	FTFI D OR	DER NO	
WELL NAME	699-56-26A	EASTING	582035.268		PECTION $1/1/180$	11
IOST WELL ID		ELEVATION	125.736	CONST DA	<u>-, -,</u>	<u>, , , , , , , , , , , , , , , , , , , </u>
GW OPERABLE UNIT	100-FR-3	DRILL DATE	8/31/1971	CONST DE		
PROGRAMS					.	
WASTE SITES 50FT						···········
WM PLAN(S)						
WASTE STORAGE(S)						
		WELL ATTR	BUTE COMME	NTS		
		CASING 1	NFORMATION	· · · · · · · · · · · · · · · · · · ·		
SIZE/UNITS TOP/	BOT/UNITS	MATERIAL	TYPE	CONNECTION	THICKNESS/UNITS	REMOVED
				:		
CHANGES						
		SCREEN 1	NFORMATION	····		
SIZE/UNITS TOP/I	BOT/UNITS	MATERIAL		TYPE	SLOT SIZE/UNITS	REMOVED
CHANGES						
	· 	DEDECORATIO	N INFORMAT	TON		
			THE ORDER			
CASING SIZE/UNI	TS TOP/	BOT/UNITS		CUTS/FT/ROUND		REMOVED
CHANGES				·		

WELL NAME	COORDINATI	s (CASING_ELEV	DRILL_DEPTH	PERF/S			COMMENTS	11102 011
		PLANT V	WELL_DTAM DATE_COMPL	COMPL_DEPTH DEPTH_WATER	TYPE DIAM	TOP	вот	PREVIOUS WELL NAMES	
699-56-21A			396.02		,			FILLED IN FARM WELL	
AB							•	т-177В	
699-56-21B AB			397.57 60.0					FILLED IN FARM WELL	
			00.0					T-1766	
699-56-23 AB			401.51 36.0					FILLED IN FARM WELL	
								T-1775	
699-56-24 AB			409.95 60.0					FILLED IN FARM WELL	
			·					т-1772	_
699-56-26A AB		55801.00 2573 6. 00	409.04 6.0	25.0				ABANDONED	
			8/71					GM-13	
699-56-26B GW			lanford W L-8800 U		0	68.0	78.0		
699~56 ~4 0A SW		M.A.Ch	namness & August 1993	J.K. Merz					
699-56-40B SW	P	Contrac	t DE-AC06-76		e			GOLDER G-6	
			2/01					GOLDER G-10	
699-56-40C GW			611.90 6.0 3/81	480.0 418.0				GOLDER G-12	
699-56-41 GW			591.20 6.0 2/81	412.0				GOLDER G-8	
699-56-42A GW			532.10 6.0 1/81	245.0				GOLDER G~7	
699-56-42B SW	człej		543.90 6.0	250.0				·	
			2/81					GOLDER G-9	

Page 1 of 1

iWIS again

HWIS Interface - Survey Information - Horizontal

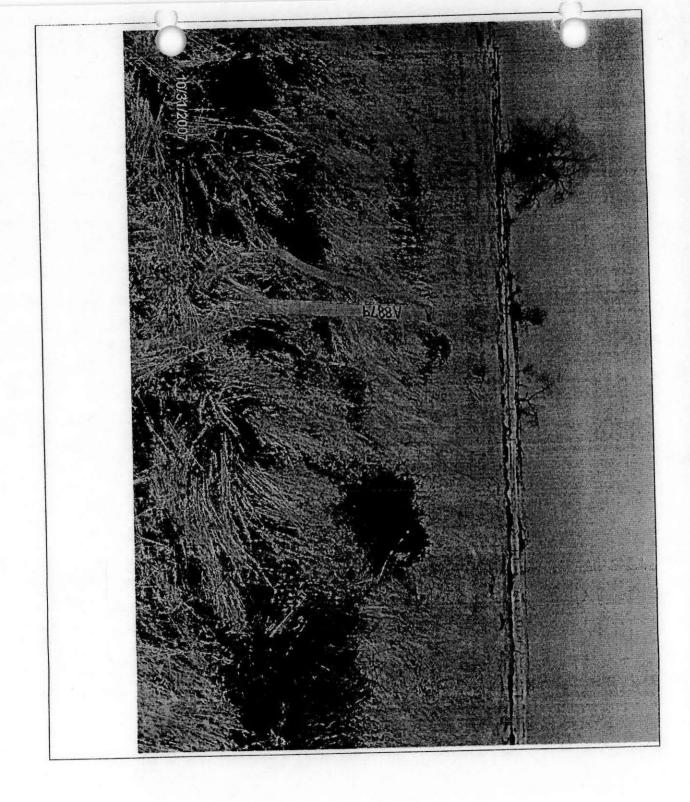
WELL_ID	WELL_NAME	SURVEY_CONTRACTOR	DATUM_TYPE	SURVEY_DATE	MEASUREMENT_METHOD	NORTHING	EASTING	SURVEY_UNITS	QUALIFIER
A8879	699-56-26A	UNKNOWN	NAD83	01/01/1801	CONVERTED		582035.268	m	***************************************

				20			
	SURVEY DATA REPO	RT	56	26 "	ľ	quest No. 034	
Project No.	Title: Well Decommissioning A8879	699		1100		e No. T13R27	
55b No. 65400811.1225400 CA10	Prepared By Larry Henke	Date 10/30/200	7	Reviewer	Anos	1	Page 1 of 1
0.1110	DESCRIPTION OF WORK		DISTR	BUTION!	SDR	PLOT	DWG
4 1 317.11 /	A8879 at coordinates given. If found obtain	coordinate	Survey	File	OR		·
Attempt to locate Well A	different than coordinates given, obtain pl	oto and	B. Howard		1		
information for WAR R			G.G. Kelty		1		
			E.C. Ra	afuse	1		
Horizontal Coordinate S	ystem: WCS 83S/91 (Meters)		W.D. Webber		1		
Vertical Datum: NAVD	88 (Meters)		S.H. W	orley	1		
Equipment Used: Trimb	le 5800 GPS receiver						

SURVEY RESULTS AND COMMENTS

Mama	Northing	Easting	Elevation	Description
Name A8879	140510.505	582035.268	123.70	No well found. Set hub and lath. Took photo.

NOTE: This Survey was performed under the supervision of a Licensed Professional Land Surveyor registered in the State of Washington.



E-NW-246 (09/04)

SCAN DATA REPORT Request No.: 081-051										
Project No.:	Title: Well Decommissionin	g A8879				File No. : 600C-001				
Jöb No.: 65400811.1225400 CA10	Prepared by: Larry A Henke			Date: 11/1/07	Reviewe	hm	Page _ 1 of 1			
DESCRIPTION OF WORK:	stadt Matal Datastanta		_ * _	DISTRIBUTION	SDR	SKETCH	DWG			
Perform ground scan using Schons possible buried well casings. If significant statements of the second scanners of			ate	Survey File	OR	OR				
shovel. If buried casing found obt elevation with GPS, take photo.	ain coordinate (C/L Cas	ing) and grou	ınd	E.C. Rafuse	1					
If not found within reasonable dep	th obtain coordinate and	ground elev	ation of	S.H. Worley	1					
signal and report. Obtain information for WAR report	rt (Dia steel myo etc.)		B.J. Howard	1						
Ootain information for WAR Topos	it. (Dia, sicci, pvc, cic.)			G.G. Kelty	1					
				W.D. Webber	1					
						"	, , , , , , , , , , , , , , , , , , , 			
DATE OF FIELD INVESTIGAT	TION:			<u> </u>	1					
Weather: Temp 55°F W	/ind MPH	Soil Condition	ons:	Rocky Sar	ndy [Wet	Dry			
Cloudy Clear P	. Cloudy Fog	Depth of Inv	estigation	5 feet		<u>-</u>				
Equipment Used:				l Functional Checks Completed						
50/60 Hz detector (for ene	ergized lines)			Completed						
Radio Frequency Electron										
Ground Penetrating Radar										
	stedt Metal Detector		\boxtimes							
GPR Antenna(s) Used:	7 1000 MHz	500) MHz	400 MH		☐ 300	MHz			
Documentation Provided: Survey I	Data Report						MINZ			
Limits of Investigation: Scanned a	50 ft circle around the s	taked positio	n of well A	A8879.						
EQUIPMENT LIMITATIONS:						 .				
1. Objects made of concrete, clay	pipe, PVC pipe, and fib	erglass pipe	are genera	lly not detectable.						
2. The transducers have a horizontal scanning limit to existing structures: the 1000 MHz is within 6 in. of an existing structure; the 500 MHz is within 1 ft. of an existing structure; the 400 MHz is within 1 ft. of an existing structure; and the 300 MHz is within 3 ft. of an existing structure.										
Discussion of Findings: Client is advised that subsurface location scanning is not 100% accurate. Client is herby notified that equipment limitations, soil/concrete conditions, utility congestion and other factors beyond Contractor control may cause subsurface objects to be missed or incorrectly located. Client assumes such risk. It is critical that Client delegate responsibility to its employees, staff and management for application of safety controls during excavation, cutting or drilling activities to prevent physical injury or property damage. Contractor shall not be liable for any injuries or damages arising from or caused by subsurface objects. well casing or other type of well were detected within the vicinity of the staked position of well A8879.										

Query HWIS again

HWIS Interface - Well History Information - Current Status

WELL_ID	}	STATUS	Samuel Committee of the	STATUS_CHANGE_COMMENT
A8879	699-56-26A	CANDIDATE FOR DECOMMISSIONING	05/09/2002	
A mark Still follows as Ab Colors (A) on the Stiller	Kinna mangapatan mangapatan sebuah man	die is verstelle der der verstelle in 1900 block stille som part 1000 block verstelle som betreet 1000 block v Der verstelle som betreet in 1000 block verstelle som betreet 1000 block verstelle som betreet 1000 block vers	Acceptance region - Amagentus and assurement of the second contraction of the second s	CONSISTENCE AND CONTROL OF CONTRO

Query HWIS again

IWIS Interface - Well History Information - Drilling

WELL_ID V	WELL_NAME	DRILL_DATE	START_CARD_NUMBER		DRILL_DEPTH_UNITS	
1		08/31/1971	and the state of t	25	Ħ	A Company of the Comp

Material	Thickness	Depth
Clay	• 40	445
Clay & fine sand	. 15	460
Sand & clay	. 10	470
Sand, gravel & clay	. 10	480
Sand & clay		490
Sand, clay & gravel	. 10	500
Gravel & clay	. 5	505
Sand, clay, gravel	• 7	512
Basalt, rock		515
Basalt rock	. 15	530

699-56-26A (GM-13)
Location: N55801, W25736
Casing Elevation: 409.04
Cable tool, drilled by Evan of Hatch Drilling
Company for ARHCO, 1971, hydrologic investigation borehole

•	Mate	er:	lal		(1)					Th	ickness	Depth
Sand Broken red Red rock . Basalt	rock	•	•	•	•	•	•	•	•	•	•	. 3 1 15 6	3 4 19 25

Pacific NW Lab by Battelle Memorial Institute Prepared for U.S. Dept of Energy under Contract DE-AC06-76RLO 1830 M.A. Chamness & J.K. Merz August 1993

699-	- 56 - a	6	DRIL	LING LOG	Alt: 409.	04	PROJECT NUMBER 545		
2			WELL NUMBER	54-26	A)+: 409. 6/29/71 SHIFT		DEPTH BEGINNING OF SHIFT OOT DEPTH COMPLETION OF SHIFT		
Evens	1						19'		
DRIL	LING	COR	ING			OTHER DEL			
TIME !	DEPTH	TIME	DEPTH	TYPE SOIL	TIME	·	ANATION		
			0' to 3'	sand					
			3' to 4'	broken red					
		:		rock					
			4' to 10'	red rock					
<u> </u>					<u> </u>				
a de	99 -56-7 A88	26A							
	188	\mathcal{P}				7-14-11-11-11-11-11-11-11-11-11-11-11-11-	:		
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			1			and the second s			
-				REM	ARKS				
6 hours	special work	drilling 1	rock						
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(<i>.</i>	·····							

	· · · · · · · · · · · · · · · · · · ·		DRIL	LING LOG		PROJECT NUMBER
RIG NUMBER			WELL NUMBE	-56-26	DATE	545 DEPTH BEGINNING OF SHIFT
DRILLER			FOREMAN	- Ula - L la	6/30/71 BHIFT	101 DEPTH COMPLETION OF SHIFT
	Evens Ing		RING			25'
TIME	DEPTH	TIME	DEPTH	TYPE SOIL	TIME	OTHER DELAYS EXPLANATION
			10' to 25'	Page 1+		
			<u> </u>	TABALO		
<u> </u>	<u> </u>					
		<u> </u>				
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6-56-26 A 8-30-89

ND SURFACE CONDITIONS CHECKLIST

DATE 8-30-89

REQUIRED CONDITION ER EII 6.4 SECT. 6.2.1

STATUS

POSTS, 3" IN DIA.
SET IN CONCRETE.
SET IN A 5" DIA. PIPE
TH A MAX. OF 3.5'

None

FENDING ABOVE THE PAD.

(4' x 5" IT DAMAGED?

None

UN A CRIB?) Dist To TOP from IS IT DAMAGED? NO WELL HEAD IS THE SURVEY POINT CLEARLY MARKED ? NO & CHIEF CASING OD. = 6 % CS DIA. - SNUG FIT NO WELL CAP SUFFICIENT VERTICLE CLEARANCE ABOVE PUMP? -LOCKABLE AND LOCKED? YES / YES IF NONE; LIST ID. AND HEIGHT REQUIRED LEGIBLE? NO ID MARKINGS PAINTED ON? NO ENGRAVED BRASS MARKER IN PAD? NO IS AREA FREE OF DEBRIS? WELL SITE WHAT NEEDS IT? ALL + STENCIL PAINT Pmp: NOTES: SUPPORT : 0 TANKS: &

CHECKS PERFORMED BY:



6-56-26 A 8-30-89

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ND SURFACE C

REQUIRED CO ER EII 6.4 SE

POSTS, 3" IN SET IN CONCRE SET IN A 5" C TH A MAX. OF TENDING ABOVE

4' × 6" IT DAMAGED?

ON A CRIB!

WELL HEAD

IS IT DAMAGED?
IS THE SURVEY F
CASING OD. =

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WELL CAP

DIA.- SNUG FIT SUFFICIENT VERT CLEARANCE ABOVE 699-65-25 A8959

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IN WATER

WELL ATTRIBUTES REPORT

.D ORDER NO LAST INSPECTION 1/1/1801 ELL ID A8959 **NORTHING** 146517 **WELL NAME** 699-65-25 **CONST DATE EASTING** 582487 HOST WELL ID **CONST DEPTH ELEVATION** 120.247 LAST INSPECTION INFORMATION CURRENT INSPECTION INFORMATION WELL PAD **WELL PAD** YES NO ¥ ND* YES NO **BRASS SURVEY MARKER BRASS SURVEY MARKER** YES ¥ ND* NO YES NO MARKER STAMPED WITH SURVEY DATA MARKER STAMPED WITH SURVEY DATA YES ✓ ND* NO YES NO MARKER STAMPED WITH WELL ID DATA MARKER STAMPED WITH WELL ID DATA YES ✓ ND* NO YES NO WELL LABELED WITH WELL ID WELL LABELED WITH WELL ID YES NO ¥ ND* L YES NO WELL LABELED WITH WELL NAME WELL LABELED WITH WELL NAME ₩ ND* YES NO YES NO PROTECTIVE POSTS PROTECTIVE POSTS YES NO ✓ ND* _ YES NO REMOVABLE POST IN PLACE REMOVABLE POST IN PLACE YES ✓ ND* NO YES NO WELL LOCK WELL LOCK YES ✓ ND* NO TYES NO WELL DAMAGED WELL DAMAGED ✓ ND* YES NO YES NO WELL IS DRY WELL IS DRY YES ▼ ND* NO YES NO PARTED CASING PARTED CASING YES NO ✓ ND* YES NO BENTONITE IN WELL BENTONITE IN WELL YES NO ✓ ND* YES NO WELL SANDED IN WELL SANDED IN YES ✓ ND* NO ☐ YES NO LAPSED CASING COLLAPSED CASING YES ✓ ND* NO T YES NO **JUIPMENT IN WELL EQUIPMENT IN WELL** YES _ NO ▼ ND* ☐ YES NO DEBRIS IN WELL DEBRIS IN WELL YES NO ✓ ND* ☐ YES NO SURFACE EROSTON SURFACE EROSION MAJOR I NONE MAJOR MONE MINOR ✓ ND* ☐ MINOR LAST PUMP INFORMATION CURRENT PUMP INFORMATION PUMP ACTIVITY PERFORMED PUMP ACTIVITY PERFORMED INSTALLED INSTALLED ✓ ND* REPLACED REPLACED REMOVED REMOVED PUMP TESTED PUMP TESTED ▼ ND* YES □ NO YES NO **NEW PUMP** NEW PUMP YES ✓ ND* NO YES NO ACTIVITY PEFORMED BY ND* **ACTIVITY PEFORMED BY** DATE ACTIVITY PERFORMED DATE ACTIVITY PERFORMED PUMP TYPE ND* PUMP TYPE PUMP MAKE ND* PUMP MAKE PUMP MODEL ND* PUMP MODEL PUMP INTAKE DEPTH (ft) PUMP INTAKE DEPTH (ft) TUBING SIZE (in) TUBING SIZE (in) TUBING MATERIAL ND* **TUBING MATERIAL** RING LENGTH (ft) TUBING LENGTH (ft)

TUBING CONNECTION

JING CONNECTION

ND*

WELL NAME WELL TYPE		COORDINATES L 83 PLANT	CASING ELEV WELL DIAM	DRILL_DEPTH		PERF/SCREEN			PAGE 351 COMMENTS		
	PUMP TYPE	L 83 PLANT NS/EW NS/EW	DATE_COMPL	COMPL_DEPTH DEPTH_WATER	TYP	TYPE DIAM		BOT	PREVIOUS WELL NAMES		
	699-64-62 GW	63786.00 -61746.00	500.25 6.0	116.0 110.5	s	5.0	90.5	110.5	SCREEN 90.5-110.5 FT.		
	S		5/72	101.0					GBM-2		
	699-65-22 GW B	65006.00 -21528.00 64883.00		32.0 32.0 25.0 25.0					T13NR27E15H1, 699-65-21		
	GW B	-22542.00	54.0	25.0							
									T13NR27E15G1		
	699-65-25 AB		391.01 4.0	26.0					FILLED IN		
\			7.0					-	T13NR27E15C1		
	699-65-38 GW	Н	Hanford Wells PNL-8800 UC-903 M.A.Chamness & J.K. Merz August 1993 Prepared for U.S. Dept of Energy under Contract DE-AC06-76RLO 1830						WELL POINT		
	Gii	<u>PNI</u>							REF.2 NO.178		
	699-65-50					3.0	55.0	125.0	CEMENT PLUG AT 125 FT.		
	GW S	Prepared fo Contrac									
	699-65-59A GW S	Pacific NW Lab by Bat	telle Memorial In	118.0		8.0	100.0	125.0	PLUG AT 135'; PIEZOMETERS REMOVED 9/74 699-65-59		
	699-65-59AP AB	65050.00 -58931.00	507.20 1.5	190.0 190.0 105.0	P	1.5	170.0	190.0	REMOVED		
	699-65-59B GW	65060.00 -58940.00	506.00 12.0 4/76	200.0 175.0 108.0	P	12.0	100.0	190.0			
	699-65-59C GW	65050.00 -58940.00	506.00 6.0 5/76	140.0 140.0 108.0	P	6.0	100.0	140.0			
	699-65-72 GW S	64452.00 -72156.00	540.28 12.0	216.0 172.0 142.0	P	12.0	137.0	157.0	CEMENT PLUG AT 172 FT. RANCH, REF.2		
	699-65-83 GW S	64944.00 -82961.00	485.63 6.0 4/67	121.0 117.0 86.0	P	6.0	60.0	120.0	CEMENT PLUG AT 117 FT.		

74,

Page 1 of 1 WIS again

IWIS Interface - Survey Information - Horizontal

WELL_ID	WELL_NAME	SURVEY_CONTRACTOR	DATUM_TYPE	SURVEY_DATE	MEASUREMENT_METHOD	NORTHING	EASTING	SURVEY_UNITS	QUALIFIER	CC
A8959	699-65-25	ВНІ	NAD83(91)	01/01/1801	ESTIMATED	146517	582487	m	D	
			······································	} ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			***************************************		mananananananananananananananananananan	******

Worley, Scott H

: Worley, Scott H

wiit: Friday, September 07, 2007 8:19 AM

To: Prendergast-Kennedy, Ellen L

Cc: Howard, Bonnie J; Rafuse, Edward C; Gostovich, Dale E

Subject: Well 699-65-25: PNNL Agreement 27647-282 BTR Designation Letter

We have this item listed as "well" 699-65-25 (A8959). The Hanford Wells book lists this structure as a 26' deep well that has been filled in. It is on our list for well decommissioning in FY-08, but I don't think there is much that we could do to remove the pipe/casing if thats what it is. Would you provide your archaeological site report so that we can place the report in the wells D-base and close this well out from future decommissioning ventures?

Thanks for your help and support!

Scott Worley

From: Prendergast-Kennedy, Ellen L [mailto:Ellen.Prendergast@pnl.gov]

Sent: Thursday, September 06, 2007 4:00 PM

To: Worley, Scott H

Cc: Prendergast-Kennedy, Ellen L; Stapp, Darby C

Subject: RE: PNNL Agreement 27647-282 BTR Designation Letter

Scott.

The altural resources project has recorded this item as an archaeological site and it is not a well. It is described as:

Simple on sists of a wooden structure that probably drifted in with high water. The structure consists of a large rectangular shape formed from approximately 12 timbers. The rectangle is overlaid with a smaller rectangle in the southeast corner. The smaller rectangle has bolts emerging from its surface every 8 inches or so. The larger rectangle has some sort of value in its' northeast corner. (2.6 x 3.0m).

The object is located in a highly sensitive and undisturbed area. Do you need to do anything with this object?

Thanks Ellen

From: Worley, Scott H

Sent: Tuesday, August 28, 2007 3:10 PM

To: Adams, M R (Margie)

Cc: Prendergast-Kennedy, Ellen L; Foss, Edward M; Rafuse, Edward C Subject: FW: PNNL Agreement 27647-282 BTR Designation Letter

Margie.

Need to add \$1,000 to this Work Order to PNNL for cultural resource reviews. (I heard we have a new person to learn this activity.)

Ed □llen,

We found a new unknown structure that needs to be investigated by our Cultural Review support group. This structure is listed as well 699-65-25, located south of F-area, but I doubt this structure is a well placed as a structure in a well placed as a str

but I doubt this structure is a well. please see attached location map and photos of the structure/object.

For more information contact Ed Rafuse.

hanks for your support!

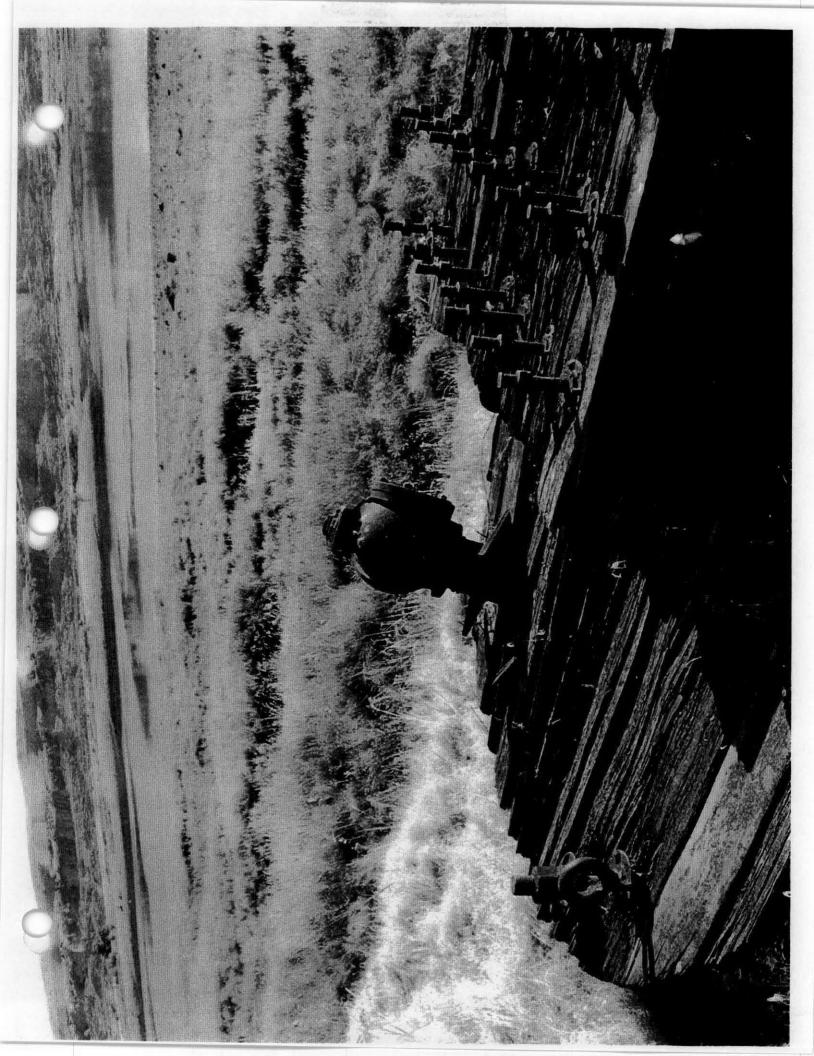
3cc orley











Worley, Scott H

):

Mangano, Colleen P

ıt:

Monday, June 18, 2007 11:20 AM

To:

Worley, Scott H; Howard, Bonnie J

Cc:

Rafuse, Edward C

Subject:

RE: WAR? 699-65-25

Attachments: WELL ATTRIBUTES REPORT.pdf

Here is the copy of the WAR.

Thank you,

Colleen Mangano EIS Systems Analyst 509-373-5597 (office) 509-851-9035 (cell) 1/21/07 spoke to Pele this reach this water water week

From: Worley, Scott H

Sent: Monday, June 18, 2007 11:16 AM **To:** Mangano, Colleen P; Howard, Bonnie J

Cc: Rafuse, Edward C Subject: WAR? 699-65-25

Ct en,

Do you have a record of generating a WAR for well 699-65-25 (A8959) recently?

The Hanford Wells Book says the well was abandoned after the 4" casing was filled in to a total depth of 26'.

If a WAR has not been generated we will need one for this well. (100-FR-3 Operable Unit)

Thanks for your help!

Scott Worley





699-83-60 A9014

WELL HAS BEEN DECOMMISSIONED SEE SLAN DOTA REPORT WELL ATTRIBUTES REPORT

WELL ID WELL NAME HOST WELL ID	A9014 699-83-60			CONST DATE			LAST INSPECTION NORTHING EASTING ELEVATION	148673.163 571549.092 141.256		
L	AST INSPECTION	INFO	RMATI	אכ			CURRENT INSPECTION IN	FORM	ATION	
WELL PAD			YES		NO	✓ ND*	WELL PAD		YES	□ NO
BRASS SURVEY MARKI	ER	\Box	YES		NO	✓ ND*	BRASS SURVEY MARKER		YES	□ NO
MARKER STAMPED WI	TH SURVEY DATA		YES		NO	✓ ND*	MARKER STAMPED WITH SURVEY DATA		YES	□ NO
MARKER STAMPED W	TH WELL ID DATA		YES		NO	✓ ND*	MARKER STAMPED WITH WELL ID DATA		YES	□ NO_
WELL LABELED WITH	WELL ID		YES		NO	✓ ND*	WELL LABELED WITH WELL ID		YES	□ NO
WELL LABELED WITH	WELL NAME		YES		NO	✓ ND*	WELL LABELED WITH WELL NAME		YES	☐ NO
PROTECTIVE POSTS			YES		NO	✓ ND*	PROTECTIVE POSTS		YES	□ NO
REMOVABLE POST IN	PLACE		YES		NO	✓ ND*	REMOVABLE POST IN PLACE		YES	□ NO
WELL LOCK			YES		NO	✓ ND*	WELL LOCK		YES	
WELL DAMAGED			YES		NO	✓ ND*	WELL DAMAGED		YES	
WELL IS DRY			YES		NO	✓ ND*	WELL IS DRY		YES	□ NO
PARTED CASING			YES		NO	✓ ND*	PARTED CASING		YES	□ NO
BENTONITE IN WELL			YES		NO	✓ ND*	BENTONITE IN WELL		YES	□ NO
L SANDED IN			YES		NO	✓ ND*	WELL SANDED IN		YES	□ NO
APSED CASING			YES		NO	✓ ND*	COLLAPSED CASING		YES	□ NO
EQUIPMENT IN WELL			YES		NO	✓ ND*	EQUIPMENT IN WELL		YES	□ NO
DEBRIS IN WELL			YES		NO	✓ ND*	DEBRIS IN WELL		YES	
SURFACE EROSION			MAJOF	_	NON	E	SURFACE EROSION		MAJOR	
	LAST PUMP IN	JEODM.	MINO	₹ 🗹	ND*		CURRENT PUMP INFO	RMAT	MINOR	
PUMP ACTIVITY PERI			INSTA	LLFD			PUMP ACTIVITY PERFORMED	INSTALLED		
FOR ACTIVITY	OR IED		REPLA			✓ ND*			REPLA	CED
			REMO	VED					REMOV	/ED
PUMP TESTED			YES		NO	✓ ND*	PUMP TESTED		YES	□ NO
NEW PUMP			YEŞ		NO	✓ ND*	NEW PUMP		YES	□ NO
ACTIVITY PEFORMED) BY	ND*					ACTIVITY PEFORMED BY			
DATE ACTIVITY PERF	ORMED						DATE ACTIVITY PERFORMED			
PUMP TYPE		ND*					PUMP TYPE	!		
PUMP MAKE		ND*					PUMP MAKE			
PUMP MODEL		ND*					PUMP MODEL			
PUMP INTAKE DEPTH	l (ft)				•		PUMP INTAKE DEPTH (ft)	:		
TUBING SIZE (in)		-					TUBING SIZE (in)			
TIBING MATERIAL		ND*		-			TUBING MATERIAL	i		
ING LENGTH (ft)		<u> </u>					TUBING LENGTH (ft)			
JBING CONNECTIO	N	ND*					TUBING CONNECTION	: !		

WELL ATTRIBUTES REPORT

FIELD ORDER NO WELL ID A9014 WELL NAME 699-83-60 HOST WELL ID			CONST DATE CONST DEPTH	LAST INSPECTION NORTHING EASTING ELEVATION	1486 571	1/1/1801 148673.163 571549.092 141.256	
	MEASUREMEN	T INFORMATION			<u> </u>	1 1	
		LAST	CURRENT		c		
DEPTH TO WATER(I	t)		/	<u>╶</u> ┟┸╼┫┃┃┠			
DEPTH TO WATER I	DATE				· 		
DEPTH TO BOTTOM	(ft)		,				
DEPTH TO BOTTOM	DATE		NA			A	
STICK UP(ft)			/	7			
REFERENCE MARK(ft)						_
REFERENCE MARK	IS TOC YES	□ NO ☑ ND*	YES NO				В
<u> </u>	PERFORATIO	N INFORMATION					
CASING SIZE TO	DP BOTTOM	CUTS/FT/ROUND			▼ Depth to Water		
	CASING IN	FORMATION		B DEPTH T	Dep O WATER FROM TOP OF O BOTTOM OF WELL FR CASING TO GROUND SU CASING TO SURVEY REF	F CASING OM TOP OF IRFACE/PAI	Þ
SIZE TOP	воттом	MATERIAL	TYPE	CONNEC	THICKNES	S	
CHANGES							
	SCREEN I	IFORMATION					
SIZE TOP	воттом	MATERIAL	Т	YPE	SLOT SIZ	E	
CHANGES							

WELL NAME	.	COORDI		CASING ELEV	DRILL DEPTH	PERF/	SCREEN		COMMENTS
	TYPE TYPE	l 83 NS/EW	PLANT NS/EW	WELL_DTAM DATE_COMPL	COMPL_DEPTH DEPTH_WATER	TYPE DIAM	TOP	BOT	PREVIOUS WELL NAMES
699-82-38	AB			413.00 16.9 12/48	253.0 254.0				FILLED IN T14NR27E30R1
699-82-45	A GW B			413.73 10.0	26.0 26.2 26.0				CONCRETE CASING 699-82-45, REF.2
699-82- 4 51	B AB			419.00 96.0	22.0				FILLED IN 699-82-45A, REF.2
699-82-46	АВ			415.00 36.0	17.0				FILLED IN REF.2 NO.112
699-83-5	os			750.00 8.0	415.0 375.0				14/28-29M1
699-83-11	os			736.85	99.0				USBR 14/28-30N1
699-83-16	os			731.92	112.0				USBR 14/27-26R1
699-83-36	GW			PNL-8800	rd Wells UC-903 s & J.K. Mera	_			DUG WELL
699-83-38	UN		Pre	Augus Augus Pared for U.S. E Contract DE-A	st 1993 Dept of Energy u	nder		4-0.0	PLUG AT 85'; PIEZOMETERS REMOVED
699-83-47	GW S		Pacific NW La	b by Battelle Me		······	35.0	150.0	6/75
699-83-60	UN		82680.00 -60085.00						
699-83-61	A GW		82950.00 -61150.00		112.0 64.0				вн-12

anford Well : matie

mation System

rage 1 of 1

Que VIS again

WIS Interface - Survey Information - Horizontal

NELL_ID	WELL_NAME	SURVEY_CONTRACTOR	DATUM_TYPE	SURVEY_DATE	MEASUREMENT_METHOD	NORTHING	EASTING	SURVEY_UNITS	QUALIFIER
\9014	699-83-60	UNKNOWN	NAD83	01/01/1801	00,11-11,	148673.163		3	R
					······································		***************************************	h.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	***************************************

	SURVEY DATA R	Request No. 074-458						
No.	Title: Well Decommissioning A9014						.,,	
Job No. 65400811.1225400 CA10	Prepared By Tim Johnson	Date 8/14/2007	Date Reviewer 8/14/2007		J. Hi	ife	Page 1 of 2	
	DESCRIPTION OF WORK		DISTRI	BUTION	SDR	PLOT	DWG	
	n for A9014. If found, fill out WAR Rep	ort. If not found,	Survey		OR			
	: US State Plane 1983		B. Howard C. Wright		1			
Zone: Project Datum:	Washington South 4602 NAD 1983 (Conus)		G. Kelt	-	1			
Vertical Datum:	NAVD 1988		E. Rafu		1			
Geoid Model: Equipment Used:	GCOIGOS SIZIO	eters	W. D. V	Webber				

Well ID# A9014 was not found at the listed coordinates: N148673.16 E571549.09

Set hub and lath.

T photo.

NOTE: This Survey was performed under the supervision of a Licensed Professional Land Surveyor registered in the State of Washington.

	Request No.: 074-491						
Project No.:	Title: SCAN: Well De	commissioni	ng / Well A	49014 <i>699</i>	-83-60	File No. : 600C-001	
Job No.: 65400811.1225400/CA10	Prepared by: Rand Taylor			Date: 9/17/07	Reviewe	Hende	Page 1 of 1
DESCRIPTION OF WORK: .				DISTRIBUTIO	N SOR	SKETCH	DWG
Performed a 10' radius scan at	staked well location A90	14.		Survey File	OR	OR	
				B.J. Howard	1	1	
Note, No well was detecte	d at the staked well site.			E.C. Rafuse	1	1	
				G.G. Kelty	1	1	
				W.D Webber	1	1	
				S.Worley	1	1	
							1
DATE OF FIELD INVESTIGA	TION: 9/17/07						1
	Wind 5 MPH	Soil Conditi	ons: 🛛	Rocky	Sandy	Wet	Dry
	P. Cloudy Fog	Depth of Inv	estigation	_8 feet			
GPR Antenna(s) Used: Documentation Provided: None Limits of Investigation: Performe EQUIPMENT LIMITATIONS: 1. Objects made of concrete, cla 2. The transducers have a horizon for the second of t	omagnetics (RF) ar (GPR) instadt 1000 MHz ad a 10' radius scan at state by pipe, PVC pipe, and fivental scanning limit to ex	ked well loca	Current/	4. ally not detectab	MHz le. in 6 in. of a	n existing st) MHz ructure; the
3 ft. of an existing structure. Discussion of Findings:	Note,No evidence of the	well casing	detected in	scan area.			

64-1	

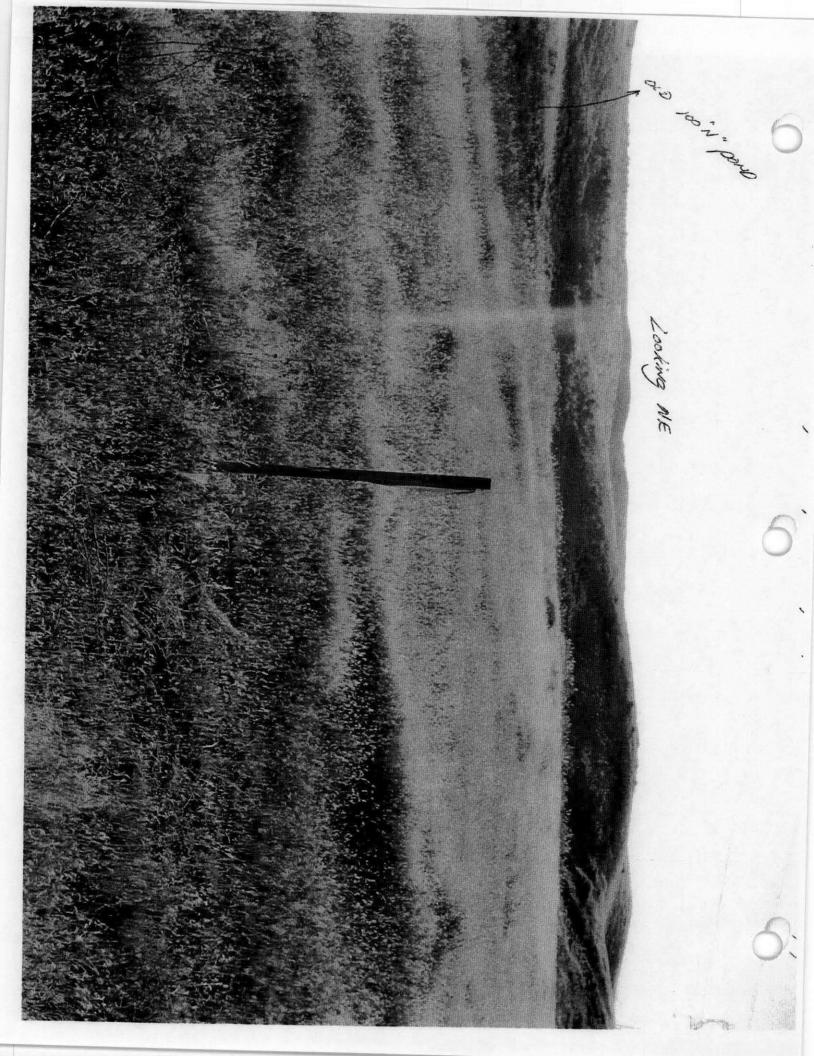
	SURVEY DATA REPORT						
r No.	Title: Well Decommissioning A9014						
Job No. 65400811.1225400 CA10	Prepared By Tim Johnson	8/14/2007		Reviewer	Dh	h	Page 1 of 2
	DESCRIPTION OF WORK		DISTRI	BUTION	SDR	PLOT	DWG
Survey well location	n for A9014. If found, fill out WAR Report. If n	ot found,	Survey File		OR		
set hub and lath. To		-	B. Howard		1		
Coordinate System	: US State Plane 1983		C. Wrig	ht	1		
Zone: Washington South 4602				/	1		
Project Datum: Vertical Datum:	NAD 1983 (Conus) NAVD 1988		E. Rafu	se	1		
Geoid Model:	Geoid03 Units: Meters Trimble 5800 GPS RTK Receiver		W. D. V	Vebber			

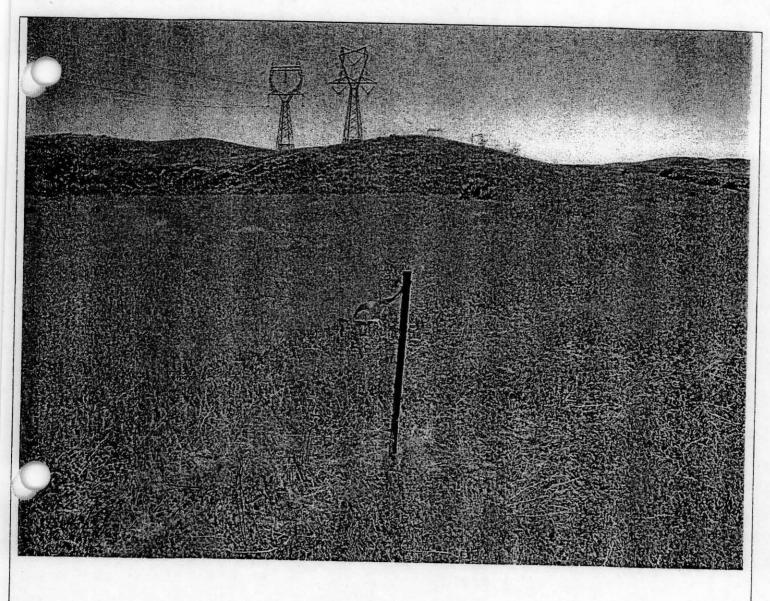
Well ID# A9014 was not found at the listed coordinates: N148673.16 E571549.09

Set hub and lath.

Tጉ ላ photo.

NOTE: This Survey was performed under the supervision of a Licensed Professional Land Surveyor registered in the State of Washington.





A9014 699-83-60

SCAN DATA REPORT				099-8	93.	60	Request No. 074-491	;
Project No.:	SCAN: Well De	ecommissioni	ng / Well A	A9014			File No. : 600C-OO 1	
65400811.1225400/CA10	Prepared by:			Date:		Reviewer		Page
03400811.1223400/CA10	Rand Taylor			9/17/07		trus	Herley	1 of 1
DESCRIPTION OF WORK: .				DISTRIBU	TION	(SYDR	SKETCH	DWG
Performed a 10' radius scan a	at staked well location A90)14.		Survey File		OR	OR	
Note, No well was detec	tad at the staked well site			B.J. Howard	d	1	1	
Note, No well was detec	ted at the staked well site.			E.C. Rafuse		1	1	,
				G.G. Kelty		1	1	
				W.D Webbe	er	1	1	
				S.Worley		1	1	
								,
								1
DATE OF FIELD INVESTIG	ATION : 9/17/07							
Weather: Temp 75°F	Wind 5 MPH	Soil Condition	ons: 🔀	Rocky [Sar	idy [Wet 🔀	Dry
Cloudy Clear	P. Cloudy Fog	Depth of Inv	estigation	_8 f	eet		-	
Equipment Used:				l Functional (Completed	Checks			
50/60 Hz detector (for	energized lines)			Compiolog				
Radio Frequency Electr						-		
Ground Penetrating Rad						•		
	onstadt							
GPR Antenna(s) Used:	1000 MHz	500) MHz		100 MF	I ₂	⊠ 300	MHz
Documentation Provided: None	· · · · · · · · · · · · · · · · · · ·				700 1411		<u> </u>	WIIIZ
Limits of Investigation: Perform	ed a 10' radius scan at stal	ked well local	tion A9014		 			
In the straight of the straigh	and it is it	xod won nood	1011 A701-	τ.				
EQUIPMENT LIMITATIONS	:							
1. Objects made of concrete, cl	ay pipe, PVC pipe, and fil	berglass pipe	are genera	ally not detect	table.			
2. The transducers have a horiz 500 MHz is within 1 ft. of an 3 ft. of an existing structure.	contal scanning limit to ex n existing structure; the 40	isting structu 0 MHz is wit	res: the 10 hin 1 ft. of	000 MHz is w f an existing s	ithin 6 structur	in. of an e; and th	existing str e 300 MHz	ucture; the is within
Discussion of Findings:	Note, No evidence of the	well casing d	etected in	scan area.		·		

	SURVEY DATA REPORT						
Proiect No.	Title: Well Decommissioning A9014	699-	83-60	File No. 6AT14R26			
Job No. 65400811.1225400 CA10	Prepared By Tirn Johnson	Date 8/14/2001	Reviewer	w Harlo	Page 1 of 2		
	DESCRIPTION OF WORK		DISTRIBUTION	SDR PLOT	DWG		
set hub and lath. T		ort. If not found,	Survey File B. Howard	OR 1			
•	US State Plane 1983 Washington South 4602		C. Wright	1			
Project Datum:	NAD 1983 (Conus)		G. Kelty	1			
Vertical Datum:	NAVD 1988		E. Rafuse	1			
	Geoid03 Units: Met Trimble 5800 GPS RTK Receiver	ers	W. D. Webber				

Well ID# A9014 was not found at the listed coordinates: N148673.16 E571549.09

Set hub and lath.

Took photo.

NOTE: This Survey was performed under the supervision of a Licensed Professional Land Surveyor registered in the State of Washington.

TAROLLOLL

Fastabend, Neil P

From:

Rafuse, Edward C

Sent:

Tuesday, August 07, 2007 4:39 PM

To:

Fastabend, Neil P

Cc:

Rafuse, Edward C; Worley, Scott H

Subject: Locate and scan the following wells

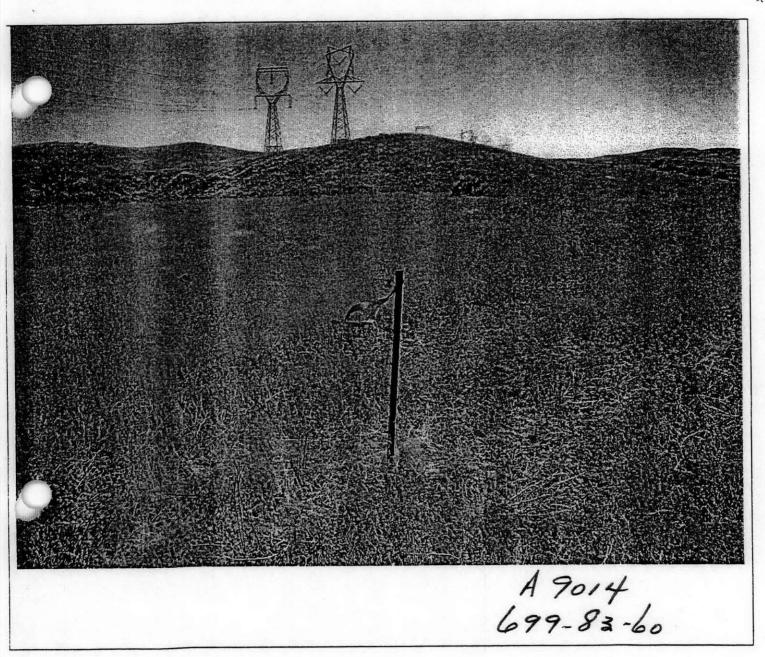
Neil,

Please locate and scan the following wells:

	Northing	Easting
A9014, (699-83-60)	148673.163	571549,092
A9015, (699-83-61A)	148754.653	571224.3
A9016, (699-83-61B)	148617.908	571389.218

The CACN for this work is 122540. If you have any questions, please contact me at 539-3859.

Thanks - - ED



⊠ Survey ☐ Scan	SUI	RVEY REQUES:	Γ	Request No.	_
Project No.	Title			0 7 4 - 0 4 5	8
	Well Decommissioning	: A9014. A9015 & ⊿o	M16	File No.	-
Job No.	Requested By	· · · · · · · · · · · · · · · · · · ·		6 A T 1 4 R 2	6
65400811.1225400 CA10	Ed Rafuse		Phone	Date Required	
Field Contact		Organization	373-5941 / 539-3859	ASAP	
Ed Rafuse	;	FH	Phone	Location	
RI	FERENCE DOCUMENT		373-5941 / 539-3859	MO-413 / 107 / 200E	
Email & Photo w/wells plotte	ed locations	18	GRID SYSTEM	DISTRIBUTION	
}				Survey File	_
			Area	E.C. Rafuse	ī
	OCATION OF BURE		Goographic	G.G. Kelty	1
South of 100N / 600A	LOCATION OF WORK		WORK CONDITIONS	WD Water	!
			□ SWP	W. CODE	1
			☐ Mask		_
			Operator Exclusion Entry		_
		SPECIAL INSTR	UCTIONS		_
If not found stake loc	lis at coordinates given. I	Data Report. Make co	py for preparation of Scan Reques	St.	
Prepared By N.P. Fastabend		Date	Reviewed By		ĺ
TALL PASTABOUND		8/10/07	Keviewed By		ļ
		NOTES/COMMEN	TEC .		
ead Surveyor/Crew		TO LES COMME	VIS		
				ţ	
			:		
ate:	Signature:				
			<u></u>		

Fastabend, Neil P

From: Rafuse, Edward C

Sent: Tuesday, August 07, 2007 4:39 PM

To: Fastabend, Neil P

Cc: Rafuse, Edward C; Worley, Scott H

Subject: Locate and scan the following wells

Neil,

Please locate and scan the following wells:

A9014, (699-83-60)	Northing	Easting
A9015, (699-83-61A)	148673.163	571549.092
A9016, (699-83-61B)	148754.653	571224.3
A9016, (699-83-61B)	148617.908	571389.218

The CACN for this work is 122540. If you have any questions, please contact me at 539-3859.

Thanks - - ED



699-83-60 (BH-16) Location: N82680, W60085 14/26-2801 Casing Elevation: 459.97 Rotary (to 514 ft.) & diamond coring, drilled by Soil Sampling Service & Longyear Company & logged by Fugro for WPPSS, 1973, WNP-1 bedrock geologic investigation borehole Thickness Depth Material (37) Sand; fine, gravelly, few large cobbles, medium-brown . . Gravel, sandy, silty; poorly graded, large clasts mostly basalt, rounded, clay & caliche coated Gravel, sandy silty, poorly graded, cobbles up to 3 1/2 in. diameter, overall color is dark-medium-tan-gray, grains have "clay coating;" gravel & cobbles; subrounded to round, over 90% basalt clasts, sand; fine to coarse, subangular to subrounded, 57 57 nonindurated Gravel & cobble fragments up to 3 1/2 in. diameter, clasts subrounded to round, 90%+ basalt w/minor quartzite, overall color is medium-tangray, grains have a "clay coating" Gravel & cobbles up to 4 in. or more, subrounded to round, all clasts are basalt Gravel, sandy; large clasts are basalt; rounded; sand is subangular, fine to coarse grained; cuttings are of large basalt clasts • • • • • • Gravel, sandy, poorly graded; i gravel 80% rounded, basalt w/minor quartzite, porphyritic andesite & acid igneous rocks: sand 20% fine to coarse, subangular, overall color is medium-tan-gray . . . Gravel, sand, & rock cuttings: abundant quartzite fragments Gravel, very sandy, poorly graded, nonindurated, overall color is light-medium-tangray; gravel: rounded, clasts are quartzite, gneiss, greenstone, minor basalt;

sand: quartz, subangular,

fine to coarse .

51

108

PNL-8800 UC-903
PNL-8800 UC-903
PNL-8800 UC-903
N.A. Chamness & J.K. Merz
N.A. Chamness & J.K. Merz
N.A. Chamness & J.K. Merz
N.A. Chamness & J.K. Merz
August 1993
August 1993
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Prepared for U.S. Dept of Energy under
Prepared for U.S. Dept of Energy
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Prep

Thickness terial (37) ; silty w/sand & a few ieces of gravel ; silty, dense, ceous, fine to medium, y micaceous, abundant agnesian minerals, h-tan ; silty, weakly ed, tan w/patches of ay & one quartzite 3 1/2 in. diameter ; argillaceous, weakly d tan Itstone; weakly d, moderately hard, rown tstone; moderately d, moderately hard, very fine grain sand 🖟 itstone & ltstone; moderately d, moderately hard, Icareous concretionary 229 ndy siltstone; ely cemented, ely hard, brown; breaks wn to orange-brown ts of tuffaceous Itstone; weakly d, moderately hard, -brown; broken surfaces uff aceous ; very fine grain, graded, subangular, cemented, friable, rown; "oxidized" rustyaminae & intermittant yers denote low-angle

eds; micaceous,

ceous

Depth

337

Pacific NW Lab by Battelle Memorial Institute Prepared for U.S. Dept of Energy under

M.A. Chamness & J.K. Merz

Material (37)	Thickness	Depth
Silty claystone; weakly		
cemented, moderately hard,		
olive-green, inter-crossed		
w/light-green bands giving		
"septarian" appearance, waxey		
tuffaceous - · · · · · ·	. 16	514
Sandy pebble conglomerate; sand		
fraction: medium to coarse		
grain, subangular, moderately		
well sorted, moderately to		
weakly indurated, reddish-		
brown stained	. 10	524
Basalt	. 117	641
Baked (?) tuff to clayey		
siltstone: moderately		
indurated (upper 0.6 ft.		
possibly baked), light-tan		
to olive-drab, thin bedded,		
moderately fractured; gas (?)		
pockets give somewhat vuggy		
appearance: lower 1 ft. weakly	ı	
indurated; highly tuffaceous	. 6	647
Sandstone; medium grain,		
angular to subangular.		
uniformly graded, weakly		
indurated, reddish-brown,		
low-angle cross-beds, little		
fractured; fractures filled		
w/light-gray. waxey clay	. 8	655
Interbedded sandstone & silt-		
stone: weakly indurated, gray.		
cross-bedded, tuffaceous	. 2	657
Sandstone: medium to coarse		
grain, subangular to sub-		
rounded, well graded,		
moderately indurated,		
reddish-brown; cross-bedded,		
light-tan to gray clay		
intervals increase in		
thickness & frequency (from		
every 1.5 ft. to every 3 in.)		
down section	. 10	667
Silty claystone: weakly		
indurated brownish-gray: a		
few clayey sand intervals in		
upper & lower 1 ft.;		
tuffaceous	. 11	678

HANFORD WELLS

PNI-8800 UC-903

PNI-8800 UC-903

PNI-8800 UC-903

PNI-8800 UC-903

August 1993

August 1993

August 1993

Prepared for U.S. Dept of Energy under Prepared for U.S. Dept of Energy under Contract DE-AC06-76RLO 1830

Pacific NW Lab by Battelle Memorial Institute Pacific NW Lab by Battelle Memorial Institute

Material (37)	Th	ickness	Depth
Clayey siltstone: moderately indurated, gray-brown to			
reddish-brown; scattered		10	600
clay-lined tubules Claystone: moderately indurated	•	10	688
gray-brown, tuffaceous	•	2	690
Mega conglomerate: well graded,			
moderately indurated tan to			
black; highly vesicular basal	t		
cobbles (6 in diameter)			
w/intersticial, splochy gray			
to tan, tuffaceous clay to			
<pre>clay clasts; red "zones" around isolated basalt</pre>			
cobbles		6	696
Basalt		174	870
Silty claystone: weakly			
indurated, soft, dark-olive-			
gray grades reddish-brown,			
tuffaceous	•	4	874
Siltstone: moderately indurated	>	A	070
medium-gray, tuffaceous	•	4	878
Claystone to slightly silty claystone: weakly indurated			
soft to moderately hard,			
light-olive-gray w/some brown			
mottling, tuffaceous	•	7	885

PNL-8800 UC-903

M.A. Chamness & J.K. Merz

August 1993

Prepared for U.S. Dept of Energy under
Contract DE-AC06-76RLO 1830

Pacific NW Lab by Battelle Memorial Institute

Material (37)	Thickness	Depth
Siltstone grades to sandy siltstone: weakly indurated, olive-gray mottled brown, tuffaceous, micaceous Siltstone: moderately indurated olive-gray mottled brown, tuffaceous Sandy siltstone: moderately indurated, horizontally streaked olive-brown & gray, micaceous, tuffaceous, horizontal laminations Siltstone: moderately indurated dark-gray-black tuffaceous Claystone-siltstone (?): very poor recovery, tuffaceous, olive-tan to olive-brown Claystone: weakly indurated (soft), dark-olive-green Clayey sandy siltstone: moderately indurated, dark-olive-green, tuffaceous, micaceous	. 36	921
dark-olive-green Basalt	56	967
graded, chalcedony cemented, well indurated, gray w/black pebbles, highly tuffaceous. Basalt	. 1 . 69	968 1,001

PNL-8800 UC-903

M.A. Chamness & J.K. Merz
August 1993

Prepared for U.S. Dept of Energy under
Contract DE-AC06-76RLO 1830

Pacific NW Lab by Battelle Memorial Institute

i

699-83-61A A9015

WELL ATTRIBUTES REPORT

FIELD ORDER NO					LAST INSPECTIO		
WELL ID	A9015				NORTHING	148754.65	.3
WELL NAME	699-83-61A			T DATE	EASTING	571224.3	
HOST WELL ID			CONS	T DEPTH	ELEVATION	140.412	
	ST INSPECTION	INFORMA	LION		CURRENT INSPECTION IN	FORMATION	
WELL PAD		YES	□ NO	✓ ND*	WELL PAD	YES	□ NO
BRASS SURVEY MARKE	R	YES	□ NO	✓ ND*	BRASS SURVEY MARKER	YES	□ NO
MARKER STAMPED WIT			□ NO	✓ ND*	MARKER STAMPED WITH SURVEY DATA	YES	□ NO
MARKER STAMPED WIT				✓ ND*	MARKER STAMPED WITH WELL ID DATA	YES	□ NO
WELL LABELED WITH V		YES	□ NO	✓ ND*	WELL LABELED WITH WELL ID	YES	□ NO
WELL LABELED WITH V		YES		✓ ND*	WELL LABELED WITH WELL NAME	YES	□ NO
PROTECTIVE POSTS		YES		✓ ND*	PROTECTIVE POSTS	YES	□ NO
REMOVABLE POST IN F	PI ACF			✓ ND*	REMOVABLE POST IN PLACE	YES	NO
WELL LOCK				✓ ND*	WELL LOCK	YES	□ NO
WELL DAMAGED		☐ YES		✓ ND*	WELL DAMAGED	YES	□ NO
WELL IS DRY		☐ YES		✓ ND*	WELL IS DRY	YES	□ NO
PARTED CASING		YES		✓ ND*	PARTED CASING	YES	□ NO
BENTONITE IN WELL		YES			BENTONITE IN WELL	YES	□ NO
SANDED IN		YES		✓ ND*	WELL SANDED IN	YES	
		│		✓ ND*	COLLAPSED CASING	YES	
ULLAPSED CASING		☐ YES		✓ ND*	EQUIPMENT IN WELL	YES	□ NO
EQUIPMENT IN WELL		L YES		✓ ND*	DEBRIS IN WELL		□ NO
DEBRIS IN WELL		YES		✓ ND*	SURFACE EROSION	☐ YES	
SURFACE EROSION			IOR □ NOM IOR ☑ ND*		SOM FIGURE ENGAGE.	☐ MAJOR☐ MINOR	
	LAST PUMP IN			·	CURRENT PUMP INFO		
PUMP ACTIVITY PERFO			TALLED		PUMP ACTIVITY PERFORMED	INSTAL	LLED
		☐ RE	PLACED	☑ ND*		REPLAC	CED
		RE	MOVED			REMOV	/ED
PUMP TESTED		☐ YES	on 🗆	✓ ND*	PUMP TESTED	YES	□ NO
NEW PUMP		☐ YES	on 🗆	✓ ND*	NEW PUMP	YES	□ NO
ACTIVITY PEFORMED	BY	ND*			ACTIVITY PEFORMED BY		
DATE ACTIVITY PERFO	ORMED	-			DATE ACTIVITY PERFORMED		
PUMP TYPE		ND*			PUMP TYPE	¥	
PUMP MAKE		ND*			PUMP MAKE		
PUMP MODEL		ND*			PUMP MODEL		
PUMP INTAKE DEPTH	(ft)	!			PUMP INTAKE DEPTH (ft)		
TUBING SIZE (in)					TUBING SIZE (in)		
TIBING MATERIAL		ND*			TUBING MATERIAL		
JING LENGTH (ft)		-			TUBING LENGTH (ft)		-
UBING CONNECTION		ND*			TUBING CONNECTION		
·		·					

WELL ATTRIBUTES REPORT

FIELD ORDER NO				LAST INSPECTION 1/1/1801 NORTHING 148754.653
WELL ID A9015 WELL NAME 699-83-61A		c	ONST DATE	EASTING 571224.3
WELL NAME HOST WELL ID	033-03-0TV		ONST DEPTH	ELEVATION 140.412
		NT INFORMATION		
	MEASUREMEN	LAST	CURRENT	
1	(6)		-	
DEPTH TO WATER			 	
DEPTH TO WATER				_
B DEPTH TO BOTTO				-
DEPTH TO BOTTO	M DATE		WA	_ A
CISTICK UP(ft)	l t			
D REFERENCE MARK				В
REFERENCE MARK	IS TOC YES	□ NO ☑ ND*	YES NO	
	PERFORATIO	N INFORMATION		
CASING SIZE T	ор воттом	CUTS/FT/ROUND		₩ Depth to Water
*				
NGES				1 1
				Depth to Bottom of Well Depth to Bottom of Co
<u> </u>				A DEPTH TO WATER FROM TOP OF CASING
				B DEPTH TO BOTTOM OF WELL FROM TOP OF CASING
	CASING I	INFORMATION		C TOP OF CASING TO GROUND SURFACE/PAD D TOP OF CASING TO SURVEY REFERENCE MARKER
		MATERIAL	TYPE	CONNECTION THICKNESS
STZF TOP	воттом	LIWIFUTUE		••••••
SIZE TOP	воттом	MATERIAL		
SIZE TOP	воттом	MATERIAL		
SIZE TOP	воттом	PALENAL		
	воттом	PALENAL		
	воттом	PALENAL		
		INFORMATION		
	SCREEN			TYPE SLOT SIZE
CHANGES	SCREEN	INFORMATION		
CHANGES	SCREEN	INFORMATION		
CHANGES	SCREEN	INFORMATION		
CHANGES SIZE TOP	SCREEN	INFORMATION		

									PAGE 300
	COORDINAT	ORDINATES CASING ELEV DRI	DRILL_DEPTH		PERF/SCREEN			COMMENTS	
WELL NAME WELL TYPE PUMP TYPE	L 83	PLANT	WELL DIAM DATE COMPL	COMPL_DEPTH_ DEPTH_WATER	TYPE	DIAM	TOP	BOT	PREVIOUS WELL NAMES
				053.0					FILLED IN
699-82 - 38 AB			413.00 16.0 12/48	253.0 254.0					T14NR27E30R1
			413.73	26.0					CONCRETE CASING
699-82-45A GW B			10.0	26.2 26.0					699-82-45, REF.2
			419.00	22.0					FILLED IN
699-82-45B AB			96.0						699-82-45A, REF.2
con 00 45			415.00	17.0					FILLED IN
699-82-46 AB			36.0						REF.2 NO.112
699-83-5			750.00	415.0					
OS			8.0	375.0					14/28-29M1
coo 07 11			736.85	99.0					USBR
699-83-11 os									14/28-30N1
00 10			731.92	112.0					USBR
699-83-16 OS									14/27-26R1
699-83-36 GW		83000.00 -36000.00	418.63	42.0					DUG WELL
			Hanford						
699-83-38 UN		М.	<u>PNL-8800</u> A.Chamness August	UC-903 & J.K. Merz					PLUG AT 85'; PIEZOMETERS REMOVE
699-83-47 GW			red for U.S. De	ept of Energy uno 06-76RLO 1830	der		35.0	150.0	6/75
S	Pacifi		y Battelle Mem						
699-83-60 UN	. 2011	-60085.00	-						
699-83-61A	our priminger is the second and in the Control of the Second of the Seco	82950.00		112.0	ı				
GW		-61150.00	12/72	64.0)				вн-12

5.70

WIS Interface - Survey Information - Horizontal

1110 1110		•						***************************************		~~~
		CUDVEY CONTRACTOR	DATUM TYPE	SURVEY_DATE	MEASUREMENT_METHOD	NORTHING	EASTING	SURVEY_UNITS	QUALIFIER	CI
WELL_ID	WELL_NAME	SURVET_CONTIONOTOR		_	{		571224.3	m		C-
49015	699-83-61A	UNKNOWN	NAD83	01/01/1801	CONVERTED	140104.000		[· · · ·		<u></u>
(00,10			{ 			**************************************				

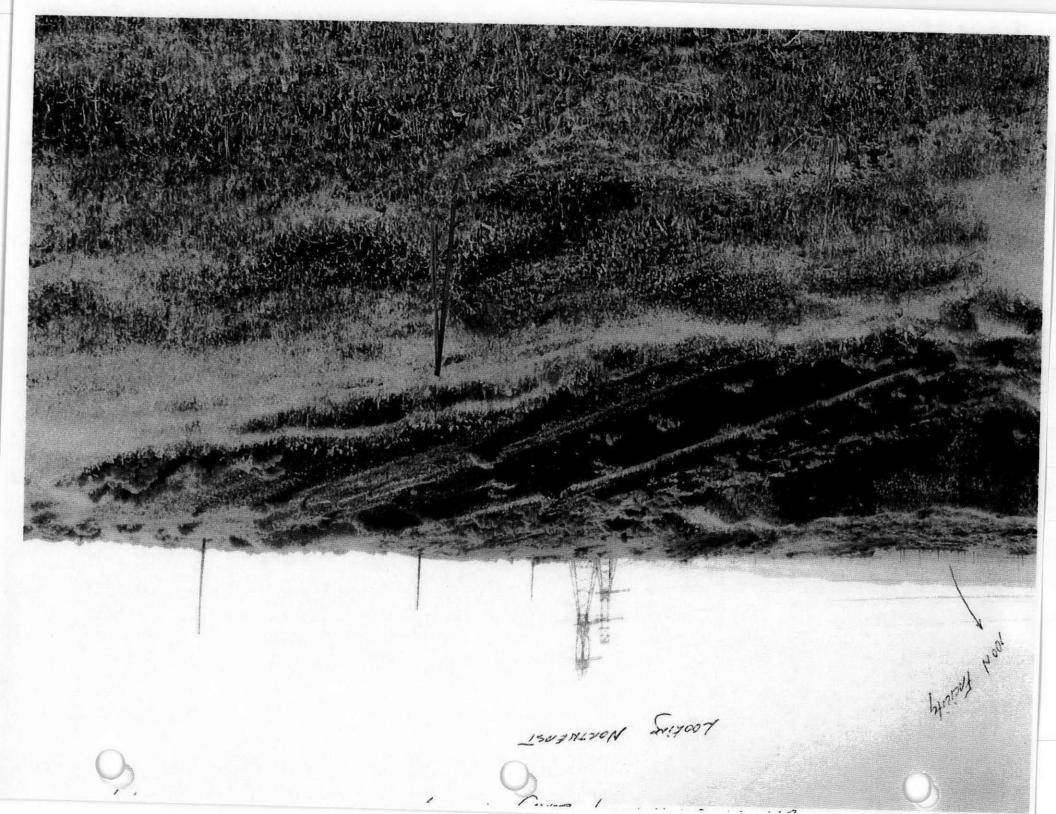
,	SURVEY DATA REI	PORT			Req 074	uest No. -458	
Project No.	Title: Well Decommissioning A9015	69	19-8	3-61	4 File	No. Γ14 R2 6	
Job No. 65400811.1225400	Prepared By Tim Johnson	Date 8/14/2007	,	Reviewer .	Hert	2	Page 1 of 2
CA10	DESCRIPTION OF WORK		DISTRIE	BUTION	SDR	PLOT	DWG
11.14	n for A9015. If found, fill out WAR Repor	rt. If not found,	Survey F	ile	OR		
set hub and lath. T	ake photo		B. Howa	rd	11		
Coordinate System	: US State Plane 1983		C. Wrigh	1t	11		
Zone:	Washington South 4602	1000	G. Kelty		1		
Project Datum:	NAD 1983 (Conus) Vertical Datum: I		E. Rafus	e	1		
Geoid Model: Equipment Used:	Geoid03 Units: Meter Trimble 5800 GPS RTK Receiver	<u>019</u>	W. D. W	ebber/			
	CY IDVIEW DEC	THE AND CON	AMENTS				

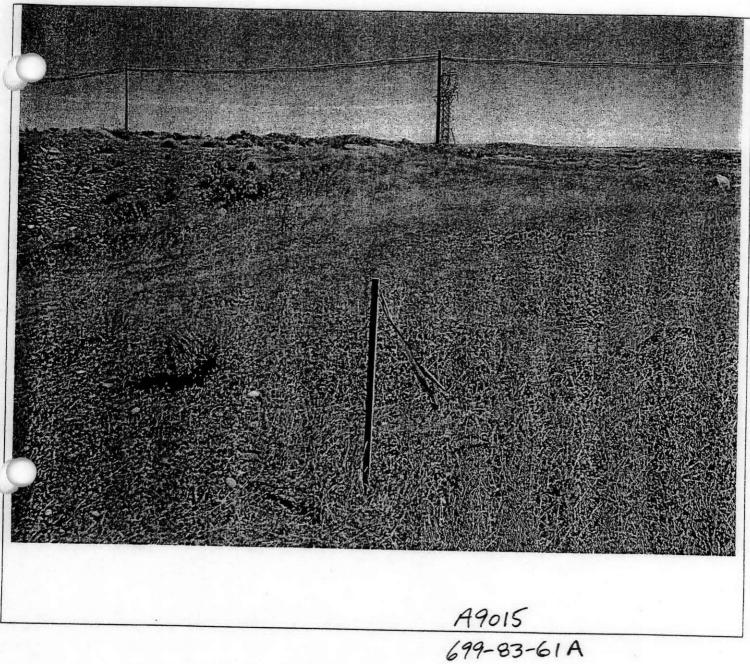
Well ID# A9015 was not found at the listed coordinates: N148754.65 E571224.30 Set hub and lath.

Took photo.

NOTE: This Survey was performed under the supervision of a Licensed Professional Land Surveyor registered in the State of Washington.

ect No.: 1 No.: 400811.1225400/CA10 SCRIPTION OF WORK: .	SCAN DATA RE Title: SCAN: Well Deco Prepared by: Rand Taylor		699-8. ell A9015	Revigue	File No. : 600C-001	
No.: 400811.1225400/CA10	SCAN: Well Deco	ommissioning / W		D evieler	600C-001	
400811.1225400/CA10			Date	Deviates		
	Kanu Laytor	9/17/07	Taral	Hanke	Page	
CONTRACTOR OF WORK.			DISTRIBUTION	SER	SKETCH	DWG
			Survey File	OR	OR	
Performed a 10' radius scan at	t staked well location A901	5.	B.J. Howard	1	1	
	ted 3' east of the staked wel		E.C. Rafuse	1	1	
marked with a 18" stake.			G.G. Kelty	1	1	
			W.D Webber	1	1	
			S.Worley	1	1	
			5. 11 0120)	+	<u> </u>	
				-		2
DATE OF FIELD INVESTIG	GATION: 9/17/07	Soil Conditions:	Rocky S	andy	Wet	Dry
Weather: Temp 75°F	Wind 5 MPH	Depth of Investiga				
Cloudy Clear	P. Cloudy Fog	1	quired Functional Check		<u> </u>	
GPR Antenna(s) Used:	ctromagnetics (RF) Radar (GPR) chonstadt 1000 MHz	□ 500 M	1	MHz	⊠ 3	00 MHz
Documentation Provided: No	•					
Limits of Investigation: Perfo	ormed a 10' radius scan at st	taked well location	A9015.	•		
EQUIPMENT LIMITATIO 1. Objects made of concrete	e, clay pipe, PVC pipe, and orizontal scanning limit to of an existing structure; the ure.	fiberglass pipe ar existing structures 400 MHz is withi	e generally not detectabl	cture; a	of an existing nd the 300 M	; structure; [Hz is with





699-83-61B A9016

WELL ID WELL NAME HOST WELL ID	A9016 699-83-61B				ST DATE ST DEPTH	NORTHING EASTING ELEVATION		1/1/1801 148617.9 571389.2 145.197		
				····						_
	AST INSPECTIO					CURRENT INSPECTION IN	IFORM	IATION		
WELL PAD			YES	□ NO	✓ ND*	WELL PAD		YES		
BRASS SURVEY MARK			YES	□ NO	✓ ND*	BRASS SURVEY MARKER		YES	□ NO	 .
MARKER STAMPED W	ITH SURVEY DATA		YES	. 🗆 NO	✓ ND*	MARKER STAMPED WITH SURVEY DATA		YES		
MARKER STAMPED W	ITH WELL ID DATA	1	YES	□ NO	✓ ND*	MARKER STAMPED WITH WELL ID DATA		YES		
WELL LABELED WITH	WELL ID		YE\$	□ NO	✓ ND*	WELL LABELED WITH WELL ID		YES	□ NO	
WELL LABELED WITH	WELL NAME		YES	□ NO	✓ ND*	WELL LABELED WITH WELL NAME		YES	□ NO	
PROTECTIVE POSTS			YES	□ NO	✓ ND*	PROTECTIVE POSTS		YES	□ NO	
REMOVABLE POST IN	PLACE		YES	□ №	✓ ND*	REMOVABLE POST IN PLACE		YES	□ NO	
WELL LOCK	<u> </u>		YES	□ NO	✓ ND*	WELL LOCK		YES	□ NO	
WELL DAMAGED			YES	□ NO	☑ ND*	WELL DAMAGED		YES	□ NO	
WELL IS DRY			YES	□ NO	✓ ND*	WELL IS DRY		YES	ON C	
PARTED CASING			YES		✓ ND*	PARTED CASING		YES		
BENTONITE IN WELL			YES		✓ ND*	BENTONITE IN WELL	_ <u>_</u>	YES	□ NO	
'. SANDED IN			YES		✓ ND*	WELL SANDED IN		YES	□ NO	
LAPSED CASING			YES		✓ ND*	COLLAPSED CASING		YES	□ NO	
¿QUIPMENT IN WELL			YES		✓ ND*	EQUIPMENT IN WELL		YES	□ NO	
DEBRIS IN WELL			YES	□ NO	✓ ND*	DEBRIS IN WELL		YES	□ NO	··-
SURFACE EROSION			MAJOR	NON	IE	SURFACE EROSION		MAJOR		_
			MINOR	. ✓ ND*				MINOR		
	LAST PUMP IN	FORMA	TION			CURRENT PUMP INFO	RMAT	ON		
PUMP ACTIVITY PERF	ORMED		INSTA	LLED		PUMP ACTIVITY PERFORMED		INSTAL	LED	
			REPLA		✓ ND*			REPLAC	ŒD	
			REMO	VED		IN MAD TECTED		REMOV	ED	
PUMP TESTED			YES	U NO	✓ ND*	PUMP TESTED		YES	□ NO	_
NEW PUMP			YES	□ №	✓ ND*	NEW PUMP		YES	□ NO	
ACTIVITY PEFORMED		ND*				ACTIVITY PEFORMED BY			···	
DATE ACTIVITY PERF				- · · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	DATE ACTIVITY PERFORMED		<u> </u>		
PUMP TYPE		ND*				PUMP TYPE				
PUMP MAKE		ND*				PUMP MAKE				_
PUMP MODEL	-	ND*				PUMP MODEL	•			
PUMP INTAKE DEPTH	(ft)	:				PUMP INTAKE DEPTH (ft)		-		
TUBING SIZE (in)						TUBING SIZE (in)				
TIBING MATERIAL		ND*				TUBING MATERIAL	· · · · · · ·	· · · · · · · · · · · · · · · · · · ·		
ING LENGTH (ft)		-				TUBING LENGTH (ft)		,,		
UBING CONNECTION		ND*			• · · · · · · · · · · · · · · · · · · ·	TUBING CONNECTION				

WELL NAME HOST WELL ID	699-83-61	В	CONST DATE CONST DEPTH		LAST INSPECTION NORTHING EASTING ELEVATION			1/1/1801 148617.908 571389.218 145.197	
	MEASUREM	IENT INFORMATI	ON	—		T			
		LAST	CURRENT	-	<u> </u>	<u></u> D		Ţ	
DEPTH TO WATER(ft)			7					
DEPTH TO WATER	DATE			7]			
DEPTH TO BOTTOM	1(ft)			-					
DEPTH TO BOTTOM	DATE			-					
STICK UP(ft)			J P	7			A		
REFERENCE MARK(ft)								
REFERENCE MARK	IS TOCY	s 🗆 no 🗹	ND* ☐ YES ☐ NO					В	
<u>-i</u>	PERFORAT	ION INFORMATION							
CASING SIZE TO	OP BOTTO	M CUTS/FT/ROU	ND		757 N	epth to Water			
					†	<u>-</u>			
'ANGES									
(NGES				j	Dept	th to Bottom o	f Well		
*				1 853		Do	epth to Bo	ttom of Casir	
		···		1		TTOM OF WELLI		OF CASING	
	CASING	INFORMATION		i		NG TO GROUND! NG TO SURVEY R			
SIZE TOP	воттом	MATERIAL	TYPE	CONN	CTION	THICKN	ESS		
HANGES									
	SCREEN	INFORMATION							
SIZE TOP	воттом	MATERIAL	7	YPE		SLOT SI	ZE		
	<u></u>		<u> </u>						
HANGES									
									

	WELL NAME	COORDINATES	CASING ELEV	DRILL DEPTH		PERF/S	SCREEN		COMMENTS
	WELL TYPE PUMP TYPE	L 83 PLANT NS/EW NS/EW	WELL_DIAM DATE_COMPL	COMPL DEPTH DEPTH WATER	TYPE	DIAM	TOP	BOT	PREVIOUS WELL NAMES
	699-83-61B	82500.0		117.0					
	GW	-60610.0	12/72	77.0					ВН-14
\ <u></u>	699-84-16 OS		Hanfo	rd Wells					USBR
	OB		PNL-8800						14/27-26J1
	699-84-20 OS			s & J.K. Merz st 1993	!				USBR OBSERVATION WELL
	US	F	Prepared for U.S. I		nder				14/27-26M1
	699-84-33 Un	Pac	ific NW Lab by Ba			9			
	699-84-34A								DUG WELL; FILLED IN.
	AB								14/27-29K1, 699-84-34
	699-84-34B	84482.0		3355.0					3" CASING TO 1085 FT.
	BW	-33705.0	00 3.0 2/81	3328.0					DC-14
	699-84~35A GW	83999.0 -34996.0	0.8 00	360.0	P	8.0	10.0	355.0	PIEZOMETERS INSTALLED 6/63
	В	•	10/62	25.0					099-04-33
	699-84-35AO GW	83999.(-34996.(40.0 103.0 24.0	P	1.5	10.0	355.0	
	В								
	699-84-35AP GW	83999. -34996.		351.0 338.0 9.0	P	1.5	325.0	351.0	
	699-84-35AQ	83999.0			P	1.5	255.0	281.0	
	GW	-34996.0	UV 1.5	25.0					
	699-84-35AR GW	83999. -34996.		217.0	P	1.5	191.0	217.0	
	GW	-34550,	6/63	25.0					
	699-84-35AS	.∞ 83999. -34996.		153.0	P	1.5	127.0	153.0	
	GW	-34550.	6/63	25.0					

anford Well 1 rmation System

Qं‱⊸ ⊔WIS again

WIS Interface - Survey Information - Horizontal

VELL_ID	WELL_NAME	SURVEY_CONTRACTOR	DATUM_TYPE	SURVEY_DATE	MEASUREMENT_METHOD	NORTHING	EASTING	SURVEY_UNITS	QUALIFIER
\9016	699-83-61B	UNKNOWN	NAD83	01/01/1801	CONVERTED		571389.218		R

Howard, Bonnie J

i: Worley, Scott H

ent: Monday, September 24, 2007 6:39 AM

To: Fastabend, Neil P; Taylor, Rand N; Howard, Bonnie J; Rafuse, Edward C

Subject: RE: Wells A9014, A9015 & A9016.pdf - Adobe Reader

Sounds good. Can the comment be added about probing 12" but didn't find anything be added to future reports? Mr. Rafuse probed 12" and found gravel too. I guess this one need to be called gone.

Thanks Neil and Rand,

Scott Worley

From: Fastabend, Neil P

Sent: Thursday, September 20, 2007 7:41 AM

To: Worley, Scott H; Taylor, Rand N; Howard, Bonnie J; Rafuse, Edward C

Subject: RE: Wells A9014, A9015 & A9016.pdf - Adobe Reader

Scott,

Typically if we don't find a casing at the surface at the time we're out there with GPS we will stake the location and do an investigation with the Schoenstedt Metal Detector. We've had pretty good success finding some casings just under the surface with this. If we find a casing within 12 inches of the surface we'll get a location on it. If we don't, we'll send the scan crew out to investigate.

particular case the surveyor didn't detect the signal that the scan crew found. The scan crew got a strong signal 3' the staked position and probed with a shovel down about 12 inches but didn't find anything but some gravel, which may indicate the ground may have been previously disturbed.

Neil P. Fastabend Fluor Government Group 372-1740 / 438-5584

From: Worley, Scott H

Sent: Wednesday, September 19, 2007 3:07 PM

To: Taylor, Rand N; Howard, Bonnie J; Rafuse, Edward C; Fastabend, Neil P

Subject: RE: Wells A9014, A9015 & A9016.pdf - Adobe Reader

Neil and Rand,

Thanks for the scan report and staking the signal location. Would it be possible to probe the signal with a shovel blade or something to try and determine what the signal could be? It seems, it could be more efficient to try to identify the signal while your there rather than having Ed or someone drive back out shovel/probe around, find the casing or signal and then make a new request to you to have the signal surveyed.

If there's issues with this please let me know.

ere are other efficiency's you can see, please share.

Thanks for your support!

Scott Worley

	SURVEY DATA REPORT									
rojr ^T o.	Title: Well Decommissioning A9016	699	-83-611	Fil 6A	e No. .T14R26					
ob No. 5400811.1225400 CA10	Prepared By Tim Johnson	Date 8/14/2007	Review	er 7/	Be	Page 1 of 2				
	DESCRIPTION OF WORK		DISTRIBUTION	SDR	PLOT	DWG				
nrvey well locatio	n for A9016. If found, fill out WAR Repor	rt. If not found,	Survey File	OR						
et hub and lath. T		•	B. Howard	1						
	: US State Plane 1983		C. Wright	1						
	Washington South 4602		G. Kelty	1						
	NAD 1983 (Conus) NAVD 1988		E. Rafuse	1						
Peoid Model:	Geoid03 Units: Mete Trimble 5800 GPS RTK Receiver	ers	W. D. Webber							

SURVEY RESULTS AND COMMENTS

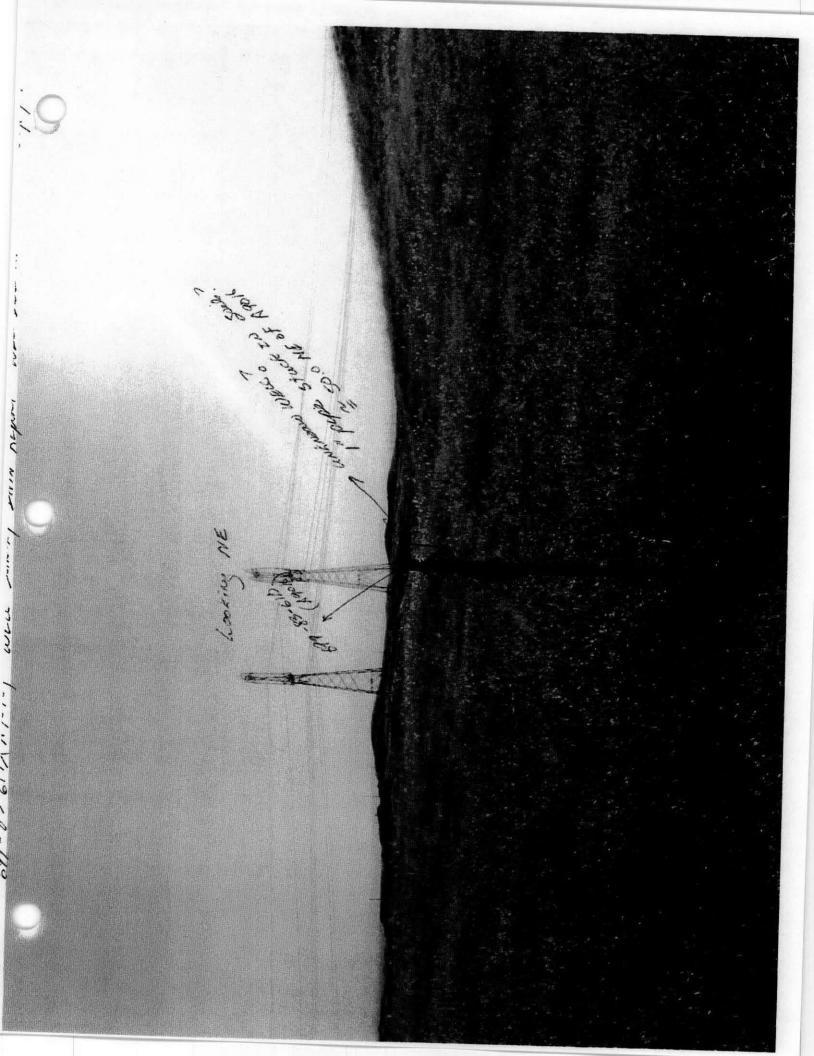
Well ID# A9016 was not found at the listed coordinates: N148617.91 E571389.22

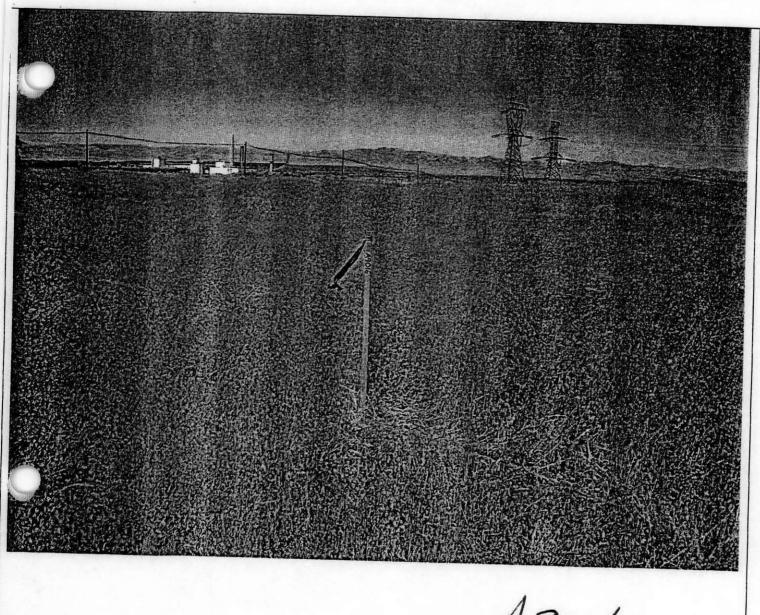
Set hub and lath.

Ton's photo.

NOTE: This Survey was performed under the supervision of a Licensed Professional Land Surveyor registered in the State of Washington.

	SCAN DATA	REPORT		699-	83-6	Request No.	
Project No.:	Title: SCAN: Well De	ecommission	ing / Well			File No. : 600C-00	1
65400811.1225400/CA10	Prepared by: Rand Taylor			Date: 9/17/07	Review	11.	Page
DESCRIPTION OF WORK: .				DISTRIBUTIO	N SEPR	SKETCH	DWG
Performed a 10' radius scan at	staked well location A90)16.		Survey File	OR	OR	
				B.J. Howard	1	1	
Note, No well was detected	ed at the staked well site.			E.C. Rafuse	1	1	
				G.G. Kelty	1	1	
				W.D Webber	1	1	
				S.Worley	1	1	
							3
DATE OF FIELD INVESTIGA	TION: 9/17/07						
Weather: Temp_75°F	Wind 5 MPH	Soil Conditi	ons:	Rocky	Sandy [Wet	Dry
Cloudy Clear	P. Cloudy Fog	Depth of Inv	estigation	8 feet			
" 'tipment Used:		<u></u>		Functional Chec Completed	ks		
50/60 Hz detector (for e							
Radio Frequency Electro							
Ground Penetrating Rad	•						į
x Other (identify) Scho	nstadt			<u> </u>			
GPR Antenna(s) Used:	1000 MHz	50	0 MHz	400 1	MHz	300	MHz
Documentation Provided: None				•			
Limits of Investigation: Performs	d a 10' radius scan at stal	ked well loca	tion A9010	5.			
EQUIPMENT LIMITATIONS:		·			······		
1. Objects made of concrete, cla	y pipe, PVC pipe, and fil	berglass pipe	are genera	illy not detectable			
2. The transducers have a horizo 500 MHz is within 1 ft. of an 3 ft. of an existing structure.	ontal scanning limit to ex existing structure; the 40	isting structu 00 MHz is wi	res: the 10 thin 1 ft. or	000 MHz is withing f an existing struc	n 6 in. of an ture; and th	existing str e 300 MHz	cucture; the
Discussion of Findings:	Note, No evidence of the	well casing v	vas detecte	d in scan area.			





A9016 699-83-61B



699-86-37 A9058

SEE SOAN REPORT. NO WELL LOCATED IN SIGNITY OF STAXED WELL WELL DECOMP.

WELL ATTRIBUTES REPORT

ECN 10/16/07

LAST INSPECTION 1/1/1801

WELL ID	A9058						NORTHING	1	149465		
WELL NAME	699-86-37					DATE	EASTING	_	78731		
HOST WELL ID				CC	DNST	DEPTH	ELEVATION	1	22.984		
LA	ST INSPECTIO	N INFO	RMATI	ON			CURRENT INSPECTION I	NFOR №	NOITA		****
WELL PAD			YES		10	✓ ND*	WELL PAD		YES	□ NO)
BRASS SURVEY MARKER	₹	; c	YES	□N	10	✓ ND*	BRASS SURVEY MARKER		YES	□ NO	
MARKER STAMPED WIT	H SURVEY DATA	,	YES	□ N	0	✓ ND*	MARKER STAMPED WITH SURVEY DATA		YES	□ NO	
MARKER STAMPED WIT	H WELL ID DATA	A	YES	N	0	✓ ND*	MARKER STAMPED WITH WELL ID DATA	-		□ NO	
WELL LABELED WITH W	/ELL ID	· □	YES	□ N	0	✓ ND*	WELL LABELED WITH WELL ID		YES	□ NO	
WELL LABELED WITH W	ELL NAME		YES	N		✓ ND*	WELL LABELED WITH WELL NAME		YES	□ NO	
PROTECTIVE POSTS			YES	□ N		✓ ND*	PROTECTIVE POSTS		YES	□ NO	
REMOVABLE POST IN P	LACE			□N		✓ ND*	REMOVABLE POST IN PLACE		YES	□ NO	
WELL LOCK		1 -	YES	□ N		₩ ND*	WELL LOCK			☐ NO	
WELL DAMAGED						✓ ND*	WELL DAMAGED		YES		
WELL IS DRY			YES			✓ ND*	WELL IS DRY		YES		
PARTED CASING			YES	□ N		✓ ND*	PARTED CASING		YES	□ NO	*
BENTONITE IN WELL			YES			✓ ND*	BENTONITE IN WELL	_ <u>_</u>	YES		
. SANDED IN		15	YES	□ N		✓ ND*	WELL SANDED IN		YES	□ NO	-
LLAPSED CASING		 	YES			✓ ND*	COLLAPSED CASING		YES	□ NO	
cQUIPMENT IN WELL				□ N		✓ ND*	EQUIPMENT IN WELL		YES		
DEBRIS IN WELL			YES			₩ ND*	DEBRIS IN WELL		YES		
SURFACE EROSION			MAJOR		ONE	- 110	SURFACE EROSION		MAJOR		
			MINOR						MINOR	LL INOIN	_ ;
	LAST PUMP IN	FORM					CURRENT PUMP INFO	RMATI			_
PUMP ACTIVITY PERFOR	RMED		INSTA	LLED		•	PUMP ACTIVITY PERFORMED		INSTAL	LED	
			REPLAC	ÇED	3	☑ ND*			REPLAC	ŒD	
			REMOV	/ED					REMOV	ED	
PUMP TESTED			YES	N(<u> </u>	✓ ND*	PUMP TESTED		YES		İ
NEW PUMP			YES	□ N	o [✓ ND*	NEW PUMP		YES	□ NO	
ACTIVITY PEFORMED BY	Y	ND*					ACTIVITY PEFORMED BY				7
DATE ACTIVITY PERFOR	RMED						DATE ACTIVITY PERFORMED		······		
PUMP TYPE		ND*					PUMP TYPE		§.		T
PUMP MAKE		ND*					PUMP MAKE				:
PUMP MODEL		ND*					PUMP MODEL				_
PUMP INTAKE DEPTH (fi	t)						PUMP INTAKE DEPTH (ft)				!
TUBING SIZE (in)		İ				······································	TUBING SIZE (in)			-	
ING MATERIAL		ND*					TUBING MATERIAL				4
BING LENGTH (ft)							TUBING LENGTH (ft)				- <u>'</u>
BING CONNECTION		ND*	-				TUBING CONNECTION				4

BELD ORDER NO

ELD ORDE	R NO						LA	ST INSPECTI	ON 1	/1/1801
WELL ID		A9058						DRTHING	_	49465
WELL NAME HOST WELL		699-86-37		CONST DATE				STING	-	78731
HOSI WELL	1U			CONST DEPTH			EL	EVATION	1	22.984
		MEASUREME	NT INFORMATION	I				*************************************	<u> </u>	
			LAST	CURRENT	-	1.	,	<u> </u>		
A DEPTH TO V	VATER(fl	t)								
DEPTH TO V	VATER D	ATE			- L					
B DEPTH TO E	SOTTOM((ft)								
DEPTH TO E	SOTTOM	DATE			~i					
C STICK UP(ft)				-				A	
DREFERENCE	MARK(ft	t)			-					
REFERENCE	MARK IS	S TOC YES	□ NO ☑ ND	*	-					В
<u>i</u>					-					
		PERFORATION	ON INFORMATION							
CASING SIZE	E TO	Р ВОТТОМ	CUTS/FT/ROUND				W Den	th to Water		
						++-	¥ 50p			ĺ
CHANGES										
<u> </u>						400 - To 20 - To 2		o Bottom of		
<u></u>					,	253				ottorn of Casing
								R FROM TOP OI OM OF WELL FR		
		CASTNG	NFORMATION		C TOP	OF	CASING 1	TO GROUND SU	RFACE/F	AD
					D TO	OF	CASING	TO SURVEY REI	FERENCE	MARKER
SIZE	TOP	воттом	MATERIAL	TYPE	CONI	NEC	TION	THICKNES	SS	
		<u> </u>			<u> </u>				<u> </u>	
CHANGES	··· ·							·		
							<u> </u>			
					· 					
		SCREEN I	NFORMATION							
SIZE	TOP	воттом	MATERIAL		/DE					
- Jazz		DOTTOR	PAILRIAL		YPE	-		SLOT SIZ		
		' 					ii			
CHANGES										
		_,								
									 :	

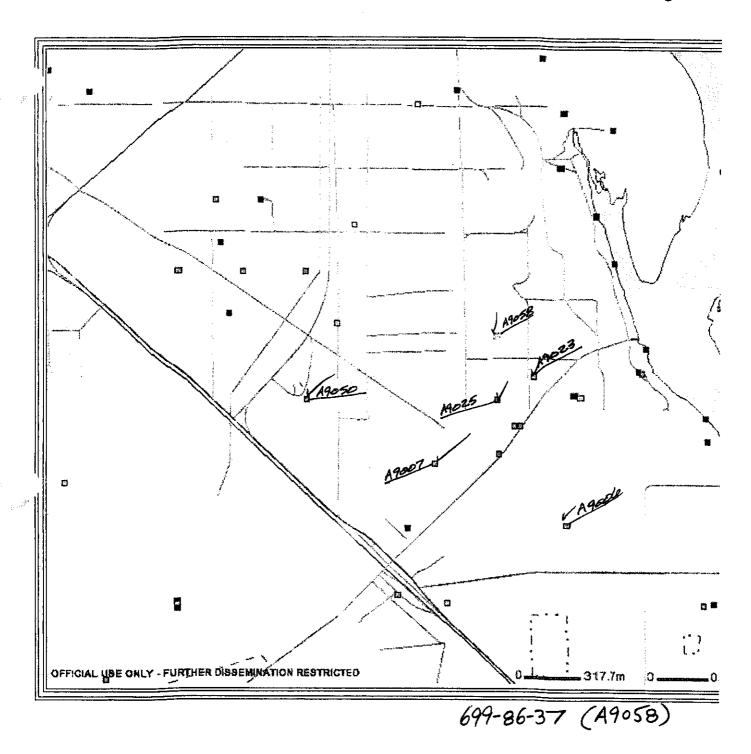
***	WELL NAME	COORDINATES	CASING ELEV WELL DIAM	DRILL DEPTH		/screen		COMMENTS	PAGE 365
	WELL TYPE PUMP TYPE	L 83 PLANT NS/EW NS/EW	DATE_COMPL	COMPL_DEPTH DEPTH_WATER	TYPE DIAN	тор	вот	PREVIOUS WELL NAMES	
	699-86-36B SW		8.0 12/84	150.0 32.0				SHOT HOLE	
	699-86-37 AB		400.00 60.0	42.0	· <u> </u>			FILLED IN T14NR27E29E1	
	699-86-42 GW	PN	lanford Well	903				DUG WELL T14NR27E30E1	
	699-86-60 AB	Prepared for	namness & J.k August 1993 or U.S. Dept of En	ergy under	8.0	50.0	500.0	ABANDONED AND SEALED.	
	699-86-64 GW	Pacific NW Lab by Ba	ot DE-AC06-76RLettelle Memorial Ins					6" TO 60' BH-18	
	699-86-95 GW		24.0	648.0	P 24.0	492.0	503.0	NOT LOCATED	
	699-87-2 os		820.00 8.0	500.0				ED WELL 14/28-29B1, MICHEL	
	699-87-23 os			70.0				USBR 14/27-27A1	
	699-87-24 os		2.0	68.0				USBR OBSERVATION WELL 14/27-27Q1	
	699-87-37 AB		410.00 48.0	42.0 42.0				FILLED IN REF.2 NO.92	
	699-87-40 AB		410.00 60.0	43.0 43.0				FILLED IN 14/27-30C1	
	699-87-42A GW	87187.00 -42331.00		39.0				DUG WELL	
	G n	-42331,00	7 12.0	41.0				14/27-30D2, REF.2	

Page 1 of 1 WIS again

HWIS Interface - Survey Information - Horizontal

		SURVEY_CONTRACTOR	DATUM_TYPE	SURVEY_DATE	MEASUREMENT_METHOD	NORTHING	EASTING	SURVEY_UNITS	QUALIFIER	СС
A9058	699-86-37	вні		01/01/1801	ESTIMATED	149465	578731	m	Р	
	······································	***************************************	······	······································	······································			******************************	L	į

						1	2	<i>'</i>
	SCAN DATA	REPORT		1	99-	80	Request No. 073-327	•
Project No.:	Title: Well Decommissionin	ng: A9058 (C	round Sca	n) 6	7/		File No. : 600C-001	
Job No.: 65400811.1225400 CA10	Prepared by: Tim Johnson			Date: 9/26/07		Reviewer	Hend	Page
DESCRIPTION OF WORK: Perform	ground scan (20' x20' Are	ea) around st	aked	DISTR	BUTION	SER	SKETCH	DWG
location of Well A9058 in attemp	of to locate possible burie	d casings.		Survey	File	OR	OR	<i>D</i> ii d
				S.H. W	orley	1		
				B.J. Ho	ward	I		
				E.C. Ra	fuse	1		
				G.G. Ke	elty	1		
				W.D. W	ebber	1		· · ·
DATE OF FIELD INVESTIGA	TION: 9/20/2007							
Weather: Temp 70°F	Wind_5 MPH	Soil Condition	ons:	Rocky	X San	idy 🗌	Wet 🔀	Dry
Cloudy Clear	P. Cloudy Fog	Depth of Inv	estigation	8	feet			
GPR Antenna(s) Used:	omagnetics (RF)		Required Current/0		aal Checks d 400 MH	Zz	☐ 300)	МНz
Documentation Provided: None				······································				
Limits of Investigation: 20' x 20' a	area centered on staked p	osition of we	Н.				· · · · · · · · · · · · · · · · · · ·	
EQUIPMENT LIMITATIONS:								
1. Objects made of concrete, cla	y pipe, PVC pipe, and fib	perglass nine	are general	lly not de	tectable			
2. The transducers have a horizo 500 MHz is within 1 ft. of an 3 ft. of an existing structure.	ntal scanning limit to exiexisting structure; the 400	isting structur 0 MHz is wit	es: the 10 hin 1 ft. of	00 MHz i an existir	s within 6 :	e; and the	300 MHz is	within
Discussion of Findings: Client is a equipment limitations, soil /concre objects to be missed or incorrectly employees, staff and management for the original or incorrectly damage. Contract the contract of t	located. Client assumes s for application of safety cotor shall not be liable for	such risk. It is such risk. It is	her factors s critical the g excavation	beyond (at Client	Contractor delegate re	control ma esponsibili	ay cause sub ity to its	osurface







699-90-49 A9077

SEE SEAN & DATA REPORT - WELL DECOMM. & SEE PHOTOS 400/07

A9077	·		CON	ET DATE	NORTHING	TION	151137	1	
099-90 49									
							123.505		
AST INSPECTIO	N INFO	RMATI	ON		CURRENT INSPECTION	INFOR	MATION		
	<u> </u>	YES	□ NO	✓ ND*	WELL PAD		YES		NO
		YES	NO	✓ ND*	BRASS SURVEY MARKER		YES		NO
		YES	□ №	✓ ND*	MARKER STAMPED WITH SURVEY DAT	A [YES		NO
TH WELL ID DAT	A	YES		▼ ND*	MARKER STAMPED WITH WELL ID DAT	A [YES		NO
WELL ID		YES	□ NO	✓ ND*	WELL LABELED WITH WELL ID		YES		NO
WELL NAME		YES		✓ ND*	WELL LABELED WITH WELL NAME		,		NO
		YES	□ NO	✓ ND*	PROTECTIVE POSTS	 			NO
PLACE		YES	□ NO		REMOVABLE POST IN PLACE				NO
		YES	□ NO	✓ ND*	WELL LOCK		1		NO
		YES	ОМ		WELL DAMAGED				
					WELL IS DRY	+ -	1		····
					PARTED CASING				
					BENTONITE IN WELL				
			(WELL SANDED IN	+			
				·	COLLAPSED CASING	<u> </u>			
					EQUIPMENT IN WELL				
	$+\overline{\Box}$				DEBRIS IN WELL	 			
			· · · · · · · · · · · · · · · · · · ·		SURFACE EROSION	+ =		· - - - ·	NO
				_				ן בי	NONE
LAST PUMP IN					CURRENT PUMP INF	ORMAT			
RMED		INSTAL	LED		PUMP ACTIVITY PERFORMED	<u> </u>		LED	
		REPLAC	CED	✓ ND*			REPLAC	ED	
		REMOV	ED				REMOV	ED	
		YES		✓ ND*	<u> </u>		YES		NO
		YES		✓ ND*	NEW PUMP		YES		NO
	ND*				ACTIVITY PEFORMED BY	!			
					DATE ACTIVITY PERFORMED	!			
	ND*				PUMP TYPE	İ			
	ND*				PUMP MAKE		<u>8</u>		
	ND*				PUMP MODEL	 			
t)					PUMP INTAKE DEPTH (ft)				
:					TUBING SIZE (in)				!
	VD*				TUBING MATERIAL	-		-	·!
<u> </u>					TUBING LENGTH (ft)		-		
	ND*		·		TUBING CONNECTION	 -		 :	
	AST INSPECTION R TH SURVEY DATA WELL ID WELL ID WELL NAME LAST PUMP IN RMED	AST INSPECTION INFO RR	AST INSPECTION INFORMATI YES	AST INSPECTION INFORMATION YES	CONST DATE CONST DEPTH AST INSPECTION INFORMATION R	ASOT7 699-90-49 CONST DATE CONST DEPTH CONST DEPTH CONST DEPTH CONST DEPTH CONST DEPTH CONST DEPTH CONST DEPTH CONST DEPTH CONST DEPTH CONST DEPTH CONST DEPTH CONST DEPTH COURSENT INSPECTION CURRENT INSPECTION CURRENT INSPECTION CURRENT INSPECTION COURSENT INSPECTOR COURS	CONST DATE CONST DATE CONST DATE CONST DATE CONST DEPTH SAT INSPECTION INFORMATION R	A9077	MORTHING 151.137 1959-9-90-99 CONST DATE CONST DATE EASTING 159.137 175.07-4 175

TELD ORDER N WELL ID WELL NAME	A907	7 90-49		CONST DATE		N	AST INSP		151137
HOST WELL ID				CONST DEPTH		_	ASTING LEVATION	4	575074 129.383
	MEAS	UREMENT	INFORMATION			- 			
		·	LAST	CURRENT			D		
A DEPTH TO WATE	=R(ft)			Johnson		│		C	
DEPTH TO WATE	R DATE						<u> </u>	_	
B DEPTH TO BOTT	OM(ft)	54			-				
DEPTH TO BOTT	OM DATE			1.	_				
STICK UP(ft)					-			A	i
REFERENCE MAR	K(ft)				- []				
REFERENCE MAR	K IS TOC	VEC	NO ☑ ND*		-				В
				YES NO	-			i	-
	PERF	ORATION I	NFORMATION			!		•	
CASING SIZE	TOP BO	TS/FT/ROUND	111		th to Wate				
					! 	-			
NGES									
/	 -						o Bottom		
									Bottom of Cas
					A DEPTH	TO WATER	FROM TO	P OF CASI	ING OP OF CASING
	CA	SING INFO	RMATION	***************************************	C TOP OF	CASING T	OGROUND	SURFACI	E/PAD
SIZE TOP							OSURVEY	REFEREN	CE MARKER
31ZE 10P	ВОТТО)M	MATERIAL	TYPE	CONNEC	CTION	THICK	NESS	
HANGES									
	SCI	REEN INFO	RMATION						
SIZE TOP	вотто	M	MATERIAL	TY	PE	· · · · · · · · · · · · · · · · · · ·	SLOTS	IZF	
	<u> </u>	·							
1									
ANGES									
1									

WELL NAM	E L TYPE	COORDIN L 83		CASING ELEV WELL DIAM	DRILL_DEPTH		PERF,	screen/		COMMENTS	PAGE 367
	P TYPE		PLANT NS/EW	DATE_COMPL		TYP	E DIAM	TOP	BOT	PREVIOUS WELL NAMES	
699-90-37	A GW			414.00 24.0	32.0						
										REF.2 NO.103, 699-90-	37
699-90-37	B Gw		90373.00 -37341.00	422.93 12.0	50.0 53.0					12" CORR. LINER	
					50.0					14/27-19н2, 699-91-37	
699-90-38	GW			418.40 12.0	41.0					12" CORR. LINER	
				12.0	43.0 41.0					14/27-19H1, REF.2	
699-90-45	GW	151024.76 576169 58	90358.40 -44906.00	421.60 6.0	42.0	P	6.0	37.0	42.0	#20 SCREEN 37-42 FT.	
	s	370103.30	-44900.00	6.0	43.0 38.0					699-90-44	
699-90-47	АВ			424.87	47.0					FILLED IN	
	AD			48.0						T14NR26E24E1	
699-90 -4 9	AB			421.00	45.0					FILLED IN	
والمستعدد والمستعدد والمستعدد والمستعدد والمستعدد والمستعدد والمستعدد والمستعدد والمستعدد والمستعدد والمستعدد	WD			60.0	54.0					T14NR26E23H1	
699-91-43	G₩		Han	ford Wells							
	GH		PNL-88	<u>800</u> UC-90	3					199-91-43	
699-91-45				ness & J.K. ugust 1993	Merz					FILLED IN	
	AB	Pi	repared for U	.S. Dept of Ener						T14NR26E24C1	
699-91-46		Paci		E-AC06-76RLO y Battelle Memo			4.0	23.0	43.8	100-HR-3 OP. UNIT	
	GW	, 401	no itti Edo D	*/ J4	23,3						
699-91-482	.		91474.00	424.30	38.0					FILLED IN	
	AB		-47878.00	60.0	35.0					699-92-48A	
699-91 -4 8E	1			431.77						FILLED IN	
	AB			60.0	42.0					699-92-48B	
599-92-14	os	ং ছে,	92000.00 -14000.00	862.01	1396.0	P	12.0	945.0 1	392.0		
			-14000.00	12.0 11/53	1394.0 385.0					14/27-24C1, PSN	
										, = :,	

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IWIS Interface - Survey Information - Horizontal

		SUDVEY COLUMN		······································	**************************************	·	********	······································	<u> </u>	gravev
WELL_ID	WELL_NAME	SURVEY_CONTRACTOR	DATUM_TYPE	SURVEY_DATE	MEASUREMENT_METHOD	NORTHING	EASTING	SURVEY_UNITS	QUALIFIER	CC
A9077	699-90-49	вні	NAD83(91)	01/01/1801	ESTIMATED	151137	575074	m	Р	
~~~~~~										

		Request No. 074-507					
t No.		File No. 6AT14R26					
Job No. 65400811.1225400 CA10	Prepared By Tim Johnson  Date 9/24/2007  Reviewer						Page 1 of 1
	DESCRIPTION OF WORK	DIST	RIBUTION	SDR	PLOT	DWG	
	77 in support of well decommis		s Surve	y File	OR	-	<del></del>
	nformation for WAR Report. C	Obtain ground	S.H. V	S.H. Worley B.J. Howard			
elevation and take photo	of staked location or well.		B.J. F				~
Horizontal Datum: WCS	83S/91 (Meters)		E.C. I	Rafuse	1		
Vertical Datum: NAVD8	,	G.G.	Kelty	1			
Equipment Used: Trimbl	W.D.	W.D. Webber					

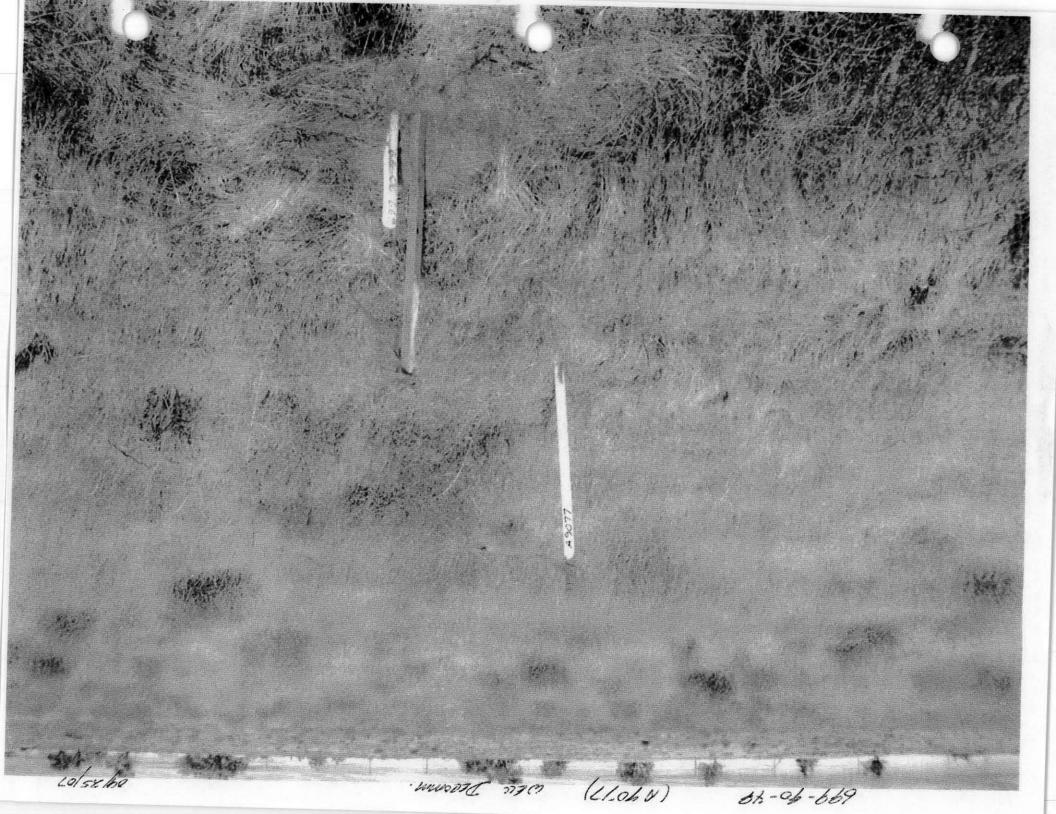
### SURVEY RESULTS AND COMMENTS

Name	Northing	Easting	Ground Elevation	Description
A9077	151137	575074	130.38	Set hub and lath at coordinates given. Observed old stake labeled A9077.
A9077	151134.98	575073.28	130.33	

NOTE: An old stake labeled A9077 was observed at coordinates shown above. See photo. No dence of a well was found.

NOTE: This Survey was performed under the supervision of a Licensed Professional Land Surveyor registered in the State of Washington.

	Request No.: 074-509									
I No.:	Title: Well Decommissionin	g: A9077 (C	round Sca	n)/699-	98-49	?	File No. : 600C-OO 1			
Job No.: 65400811.1225400 CA10	Prepared by: Tim Johnson			Date: 9/25/07		Reviewe		Page 1 of 1		
DESCRIPTION OF WORK: Perform location of Well A9077 in attempt			aked	DISTRI	BUTION	SDR	SKETCH	DWG		
location of wen A90// in accemp	or to locate possible buries	a casings.		Survey F	ile	OR	OR			
	B.J. How	ard	1							
		E.C. Rafi	ise	1	-	<u> </u>				
				G.G. Kel	ty	1		<del></del>		
				W.D. We	bber	I				
			-							
DATE OF FIELD INVESTIGATION: 9/20/2007										
Weather: Temp_70°F	Wind 5 MPH	Soil Conditi	ons:	Rocky	X Sar	idy [	Wet 🔀	Dry		
Cloudy Clcar	P. Cloudy Fog	Depth of Inv	estigation	8	feet					
ipment Used:		· .		i Functions Completed	l Checks					
50/60 Hz detector (for en	nergized lines)									
Radio Frequency Electro	•									
Ground Penetrating Rad				-						
	netic Locator (Schonstedt	:)	$\boxtimes$							
GPR Antenna(s) Used:	1000 MHz	500	MHz		400 MH	 [z	300	MHz		
Documentation Provided: None										
Limits of Investigation: 20' x 20'	area centered on staked p	osition of we	11.							
EQUIPMENT LIMITATIONS:								<del></del>		
1. Objects made of concrete, cla	y pipe, PVC pipe, and fib	erglass pipe	are genera	lly not dete	ctable.					
2. The transducers have a horizo 500 MHz is within 1 ft. of an 3 ft. of an existing structure.	ntal scanning limit to exi existing structure; the 40	sting structur 0 MHz is wit	res: the 10 hin 1 ft. of	000 MHz is f an existin	within 6 g structur	in. of an e; and the	existing streets 300 MHz	icture; the is within		
Discussion of Findings: Client is advised that subsurface location scanning is not 100% accurate. Client is herby notified that equipment limitations, soil /concrete conditions, utility congestion and other factors beyond Contractor control may cause subsurface objects to be missed or incorrectly located. Client assumes such risk. It is critical that Client delegate responsibility to its employees, staff and management for application of safety controls during excavation, cutting or drilling activities to prevent physical urry or property damage. Contractor shall not be liable for any injuries or damages arising from or caused by subsurface objects.										
x√ote: No evidence of well casing detected in scan area.										



699-91-45 A9079

# SEE SURVEY SCAN & PHOFO WELL DELOMA. 10/01/07 EUN WELL ATTRIBUTES REPORT

WELL ID WELL NAME HOST WELL ID	A9079 699-91-45				ONST DATE	LAST IN SPECTS NORTHING EASTIN G ELEVATION	1/1/180 151539 575879 129.081	
WELL PAD	AST INSPECT	ON INF	DRMAT	TION		CURRENT INSPECTION I	NFORMATION	l
			YES		IO 🗹 ND*		YES	□ NO
BRASS SURVEY MARKI			YES		IO 🗹 ND*	BRASS SURVEY MARKER	YES	□ NO
MARKER STAMPED WI	TH SURVEY DAT	ΓA ¦	YES		0 <b>☑</b> ND*	MARKER STAMPED WITH SURVEY DATA	YES	□ NO
MARKER STAMPED WI		TA _	YES		0 <b>☑</b> ND*	MARKER STAMPED WITH WELL ID DATA	YES	□ NO
WELL LABELED WITH		_	YES	□N	O	WELL LABELED WITH WELL ID	YES	□ NO
WELL LABELED WITH	WELL NAME		YES	N	O ☑ ND*	WELL LABELED WITH WELL NAME	YES	
PROTECTIVE POSTS			YES	N	O V ND*	PROTECTIVE POSTS	YES	
REMOVABLE POST IN	PLACE		YES	□ N				
WELL LOCK			YES					
WELL DAMAGED						WELL DAMAGED		□ NO
WELL IS DRY						WELL IS DRY	└ YES	NO_
PARTED CASING			YES			PARTED CASING	U YES	NO NO
BENTONITE IN WELL			YES			BENTONITE IN WELL	YES	NO NO
L SANDED IN			YES			WELL SANDED IN	YES	NO NO
LAPSED CASING			YES			COLLAPSED CASING	YES	NO_
¿QUIPMENT IN WELL				NC		EQUIPMENT IN WELL	YES	_ <u>NO</u>
DEBRIS IN WELL			YES	NC		DEBRIS IN WELL	☐ YES	NO_
SURFACE EROSION			MAJOR		ONE	SURFACE EROSION	YES	NO
				R 🗹 ND			MAJOR	
	LAST PUMP I	NFORMA				CURRENT PU MP INFOR	MINOR MATION	
PUMP ACTIVITY PERFO	RMED		INSTA	LLED		PUMP ACTIVITY PERFORMED	☐ INSTAL	LED
			REPLA	CED	✓ ND*		REPLAC	
DI IAAD TECTED			REMO	VED			REMOV	'ED
PUMP TESTED		<u> </u>	YES	□ NO	✓ ND*	PUMP TESTED	YES	□ NO
NEW PUMP		<del></del>	YES	□ NO	✓ ND*	NEW PUMP	YES	□ NO
ACTIVITY PEFORMED B		ND*				ACTIVITY PEFORMED BY		
DATE ACTIVITY PERFOR	RMED	!				DATE ACTIVITY PERFORMED		
PUMP TYPE		ND*				PUMP TYPE		
PUMP MAKE		ND*				PUMP MAKE	<u></u>	
PUMP MODEL		ND*				PUMP MODEL		<del></del>
PUMP INTAKE DEPTH (fi	t)					PUMP INTAKE DEPTH (ft)		
UBING SIZE (in)				<u>-</u>		TUBING SIZE (in)		
IBING MATERIAL	-	ND*				TUBING MATERIAL		
ING LENGTH (ft)	i					TUBING LENGTH (ft)		
BING CONNECTION		ND*				TUBING CONNECTION	· <del></del>	

SEE SEE SULVEY, SOME & Phore WELL DECOMP. w/pi/or

FIELD ORDER NO WELL ID WELL NAME HOST WELL ID	A9079 699-91-		CONST DATE CONST DEPTH		 	LAST INS NORTHIN EASTING ELEVATIO	G	1	1/1/1801 151539 175879 129.081
	MEASURI	MENT INFORMAT	ION		7				
		LAST	CURRENT	┈┆╎╶┟	+  -	<u> Io</u>	c	1	
DEPTH TO WATE	R(ft)								
DEPTH TO WATER	R DATE								
В РЕРТН ТО ВОТТО	M(ft) 45			-					
DEPTH TO BOTTO	M DATE			- []				ļ	•
STICK UP(ft)				-				A	
REFERENCE MARI	(ft)			-					
REFERENCE MARK	(IS TOC,	YES 🗌 NO 🗹	ND*   YES NO						В
	PERFORA	TION INFORMATION	ON						
CASING SIZE	ор вотто	M CUTS/FT/ROU	ND		₩ Dei	oth to Wa	der		
` <b>NGES</b>					Depth	to Botto:			ttom of Casing
	CASING	G INFORMATION		B DEPTH	TO BOTT	R FROM TOM OF WE	OP OF LL FRO ND SUF	CASING OM TOP C	F CASING
SIZE TOP	воттом	MATERIAL	TYPE	CONNE	CTION	THIC	KNES		
HANGES									
	SCREEN	INFORMATION							
SIZE TOP	воттом	MATERIAL	TY	PE		SLOT	SIZE	_	
IANGES									

WELL NAME WELL T	YPE	COORDIN L 83	IATES PLANT	CASING ELEV WELL DIAM	DRILL DEPTH COMPL DEPTH		PERF	SCREEN		COMMENTS PAGE 36
PUMP T		NS/EW	NS/EW	DATE_COMPL	DEPTH_WATER	TYPE	DIAM	TOP	вот	PREVIOUS WELL NAMES
699-90-37A GW				414.00 24.0	32.0					
		-								REF.2 NO.103, 699-90-37
699-90-37B GW			90373.00	422.93	50.0					12" CORR. LINER
Gii			-37341.00	12.0	53.0 50.0					14/27-19H2, 699-91-37
699-90-38				418.40	41.0					12" CORR. LINER
GW				12.0	43.0 41.0					14/27-19H1, REF.2
699-90-45		51024.76	90358.40	421.60	42.0	P	6.0	37.0	42.0	#20 SCREEN 37-42 FT.
GW S	5	76169.58	-44906.00	6.0	43.0 38.0					699-90-44
699-90-47				424.87	47.0					
AB				48.0	47.0					FILLED IN
699-90-49										T14NR26E24E1
AB				421.00 60.0	45.0 54.0					FILLED IN
										T14NR26E23H1
699-91-43 GW										
							·			199-91-43
699-91-45 AB	-			420.00	45.0					FILLED IN
				72.0	45.0					T14NR26E24C1
699 <b>-</b> 91- <b>4</b> 6 GW			Hanfo	ord Wells			4.0	23.0	43.8	100-HR-3 OP. UNIT
699-91-48A		1	M.A.Chamnes	ss & J.K. Me	rz					FILLED IN
AB	•	Drom		ust 1993	undor					
				Dept of Energy AC06-76RLO 18						699-92-48A
699-91-48B AB	Pac			lemorial Institute						FILLED IN
		47 <b>5</b>								699-92-48B
699-92-14 os			92000.00 -14000.00	862.01 12.0	1396.0 1394.0	P	12.0	945.0 1	392.0	ARMY CAMP WELL
O5			-14000.00	11/53	385.0					14/27-24C1, PSN

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# WIS Interface - Survey Information - Horizontal

		SURVEY_CONTRACTOR	DATUM_TYPE	SURVEY_DATE	MEASUREMENT_METHOD	NORTHING	EASTING	SURVEY_UNITS	QUALIFIER	СС
A9079	699-91-45	ВНІ	NAD83(91)	01/01/1801	ESTIMATED	151539	575879	m	Р	-
***************************************										

		Request No. 074-507					
act No.	Title: Well Decommissioning: A90		File No. 6AT14R26				
Job No. 65400811.1225400 CA10	Prepared By Tim Johnson			Page 1 of 1			
	DESCRIPTION OF WORK	DISTRI	BUTION	SDR	PLOT	DWG	
Stake or locate Well As	0079 in support of well decommiss	sioning at coordinates	Survey	File	OR		
given. II found, obtain	information for WAR Report. Of of staked location or well.	btain ground	S.H. Worley		1		
cicvation and take photo	or staked location of well.		B.J. Ho	ward	1	-	
Horizontal Datum: WC	S83S/91 (Meters)		E.C. Ra	fuse	1		
Vertical Datum: NAVI	088 (Meters)	G.G. Ke	lty	1	<u> </u>		
Equipment Used: Trim	uipment Used: Trimble GPS 5800 RTK				1 1		
*					+		<del></del>

### SURVEY RESULTS AND COMMENTS

Name	Northing	Easting	Ground Elevation	Description
A9079	151539	575879	128.90	Set hub and lath at coordinates given.
A9079	151539.06	575880.85	128.88	Observed old stake labeled A9079.

MOTE: An old stake labeled A9079 was observed at coordinates shown above. See photo. No dence of a well was found.

OTE: This Survey was performed under the supervision of a Licensed Professional Land Surveyor registered in the State of Washington.

	SCAN DATA	REPORT					Request No.: 074-509	
Project No.:	Title: Well Decommissionin	ng: A9079 (0	Ground Sca	an) /699 -	91-45		File No. : 600C-001	
Job No.: 65400811.1225400 CA10	Prepared by: Tim Johnson			Date: 9/25/07		Reviewe	497	Page
DESCRIPTION OF WORK: Perform plocation of Well A9079 in attempt	ground scan (20' x20' Ar	rea) around s	aked	DISTRIB	UTION	SDR	SKETCH	DWG
and the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of t	to locato possible ourc	A casings.		Survey Fi	le	OR	OR	
				S.H. Worl	ley	1		· ·
				B.J. Howa	ırd	1		<del></del>
				E.C. Rafus	se	1		
				G.G. Kelty	y	1		
				W.D. Web	ber	1		
								<del></del>
				:				
DATE OF FIELD INVESTIGAT	FION: 9/20/2007	· · · · · · · · · · · · · · · · · · ·		<u> </u>	<del></del>			
Weather: Temp_70°F W	/ind_5 MPH	Soil Conditi	ons:	Rocky	X San	dy 🗍	Wet 🔀	Dry
Cloudy Clear P	. Cloudy Fog	Depth of Inv	estigation	8	feet			
Projement Used:				Functional Completed	Checks			
50/60 Hz detector (for ene	ergized lines)			•				
Radio Frequency Electron	nagnetics (RF)							
Ground Penetrating Radar	(GPR)							
X Other (identify) Magne	tic Locator (Schonstedt)	)	$\boxtimes$					
GPR Antenna(s) Used:	] 1000 MHz	500	MHz		400 MH:	z	300 N	ЛН2
Documentation Provided: None			·····					
Limits of Investigation: 20' x 20' are	ea centered on staked po	osition of we	11.			<del>-</del>	<u> </u>	
EQUIPMENT LIMITATIONS:							<u> </u>	
1. Objects made of concrete, clay	pipe, PVC pipe, and fibe	erglass pipe :	are general	ly not detec	table.			
<ol> <li>The transducers have a horizont 500 MHz is within 1 ft. of an ex 3 ft. of an existing structure.</li> </ol>	al scanning limit to exis	sting structur	es: the 100	O MHz is u	rithin 6 i	n. of an ex; and the 3	isting struc 100 MHz is	ture; the within
Discussion of Findings: Client is adequipment limitations, soil /concrete objects to be missed or incorrectly lo employees, staff and management for injury or property damage. Contracto ote: No evidence of well casing definitions of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the c	cated. Client assumes si application of safety cor shall not be liable for	estion and offuch risk. It is notrols during	er factors critical the excavation	beyond Cor at Client del on cutting or	tractor of egate res	ontrol may	y cause sub y to its	surface

5ti-16-669



699-92-47 A9083 SEE SLAN, SURVEY & PHOTO.
WELL DECOMM: 10/0/PT
EEU
WELL ATTRIBUTES REPORT

WELL ID A9083 WELL NAME 699-92-HOST WELL ID	47	CONST DATE	LAST INSPECTI NORTHING EASTING ELEVATION	1/1/180 151545 575474 129.08	1
LAST INSPE	CTION INFORMAT	ION	CURRENT INSPECTION I	NFORMATION	<del></del>
WELL PAD	YES	□ NO ☑ ND*			
BRASS SURVEY MARKER	YES	□ NO ☑ ND*			
MARKER STAMPED WITH SURVEY		□ NO ☑ ND*		YES	□ NO
MARKER STAMPED WITH WELL ID	DATA YES	□ NO ☑ ND*		YES	□ NO
WELL LABELED WITH WELL ID	☐ YES	□ NO ☑ ND*	WELL LABELED WITH WELL ID	☐ YES	□ NO
WELL LABELED WITH WELL NAME		□ NO ☑ ND*	WELL LABELED WITH WELL NAME	YES	□ NO
PROTECTIVE POSTS	☐ YES	□ NO ☑ ND*	PROTECTIVE POSTS	☐ YES	NO
REMOVABLE POST IN PLACE	☐ YES	□ NO ☑ ND*	REMOVABLE POST IN PLACE	YES	NO NO
WELL LOCK	YES	□ NO ☑ ND*	WELL LOCK	YES	□ NO
WELL DAMAGED	☐ YES	□ NO ☑ ND*	WELL DAMAGED	YES	NO
WELL IS DRY	☐ YES		WELL IS DRY	YES	NO
PARTED CASING			PARTED CASING	YES	U NO
BENTONITE IN WELL	☐ YES	□ NO ☑ ND*	BENTONITE IN WELL	☐ YES	☐ NO
WELL SANDED IN		□ NO ☑ ND*	WELL SANDED IN	YES YES	□ NO
DLLAPSED CASING		□ NO ☑ ND*	COLLAPSED CASING	YES YES	□ NO
¿QUIPMENT IN WELL	\ \ \ YES	□ NO ☑ ND*	EQUIPMENT IN WELL	YES	□ NO
DEBRIS IN WELL	YES YES	□ NO ☑ ND*	DEBRIS IN WELL	YES	□ NO
SURFACE EROSION	YES	□ NO ☑ ND*	SURFACE EROSION	YES	NO_
	MAJOR	!	SON ACC ENGSION	MAJOR	NONE
LAST PUM	P INFORMATION	( E) ND	CURRENT PUMP INFOR	MINOR	
PUMP ACTIVITY PERFORMED	[] INSTA	LLED	PUMP ACTIVITY PERFORMED	INSTAL	LED
	REPLA	CED ☑ ND*		REPLAC	
NIMA TECTED	☐ REMO\	/ED		REMOV	
PUMP TESTED	☐ YES	□ NO ☑ ND*	PUMP TESTED	☐ YES	□ NO
IEW PUMP	YES	□ NO ☑ ND*	NEW PUMP	☐ YES	□ NO
CTIVITY PEFORMED BY	ND*		ACTIVITY PEFORMED BY		
ATE ACTIVITY PERFORMED	! 		DATE ACTIVITY PERFORMED	<del></del>	
UMP TYPE	ND*		PUMP TYPE		
UMP MAKE	ND*		PUMP MAKE	<del></del>	
JMP MODEL	ND*		PUMP MODEL		
JMP INTAKE DEPTH (ft)			PUMP INTAKE DEPTH (ft)	<del></del>	<del></del>
JBING SIZE (in)			TUBING SIZE (in)	<del></del>	
JBING MATERIAL	IND*		TUBING MATERIAL	<del></del>	
BING LENGTH (ft)			TUBING LENGTH (ft)		
BING CONNECTION	ND*		TUBING CONNECTION		

SEE SCAN, SIKULY & PHOIDS

WELL ATTRIBUTES REPORT

WELL ID	RDER NO	A9083				LAST INSPECTION NORTHING	1/1/1801 151545
WELL NA HOST WE		699-92-		CONST DATE		EASTING	575474
		······································		CONST DEPTH		ELEVATION	129.08
		MEASUR	EMENT INFORMATION		<del>                                    </del>		
			LAST	CURRENT			Ţ
A DEPTH T	O WATER	L(ft)					
DEPTH T	O WATER	DATE					
B DEPTH T	О ВОТТО	M(ft)					
DEPTH T	о вотто	M DATE	4177	<u> </u>		}	
STICK UP	P(ft)			<u> </u>	-		A
REFEREN	CE MARK	(ft)			-		
REFEREN	CE MARK	IS TOC	YES NO V ND*	YES NO		,	В
		PERFORA	ATION INFORMATION			-	
CASING 51	ZE T	OP BOTT	OM CUTS/FT/ROUND				
					<b>     </b>	Depth to Water	
	•						
HANGES							
					0	epth to Bottom of Wel	,
					275.13		o Bottom of Casing
					A DEPTH TO	WATER FROM TOP OF CA	SING
		CACTN	C THEODAY		C TOP OF CA	BOTTOM OF WELL FROM SING TO GROUND SURFA	CE/PAD
		CASIN	G INFORMATION		D TOP OF CA	SING TO SURVEY REFERE	NCE MARKER
SIZE	TOP	воттом	MATERIAL	TYPE	CONNECTI	ON THICKNESS	7
i	<del></del>	<u> </u>					
IANGES							
	<del></del>						
		SCREE	N INFORMATION	· · · · · · · · · · · · · · · · · · ·			
SIZE	TOP	воттом	MATERIAL	TY	DF	SLOT SIZE	7
						3101 3122	
							J
ANGES							
ANGES					<del></del>		

WELL NAM	E L TYP)	COORDINE L 83	NATES PLANT	CASING ELEV WELL DIAM	DRILL DEPTH		PERF	SCREEN		COMMENTS	PAGE 368
	P TYP		NS/EW	DATE_COMPL	COMPL_DEPTH DEPTH_WATER	TYP	E DIAM	TOP	вот	PREVIOUS WELL NAMES	
699-92-47	AB		angeningste dangen generalis	420.00 56.0	49.0					FILLED IN T14NR26E24D1	
699-92-49	GW		Han	ford Wells		······································			<u></u>		
	В		PNL-88	300 UC-903						14/25-23A1	
699-93-37			M.A.Cham	ness & J.K. Mo ugust 1993	erz					FILLED IN	
	AB	Pre	pared for U.	S. Dept of Energy	under					14/27-19A1, N.RUN	
699-93-46	GW		Contract DE	E-AC06-76RLO 18 Memorial Institut	30					14/2/-13A1, N.RUN	
699-93-48	GW	151795.52 575094.32	92905.60 48426.60	437.79 4.0 4/92	83.0 62.3 52.9	s	4.0	41.2	62.3	100-HR-3 OP. UNIT	
699-93-49	1 D			405.22	58.0					FILLED IN	
	AB			60.0						T14NR26E14Q1	
699 <b>-</b> 93-49E	S Gw										
699-93-50	AB		92871.00 -49884.00							FILLED IN	
699-93-93	00			637.01	520.0	P	20.0	262.0	516.0	ARMY CAMP WELL	
	os			20.0 4/53	515.5 235.0					14/24-21B1, PSN	
699-94-47				420.00						FILLED IN	
	AB			48.0						14/26-13M1	
699 <b>-94-48</b>				424.30	39.0					FILLED IN	
	AB			60.0						14/26-13M1, N.RUN	
699-96-43		152605.54	95550.40	421.84	40.2	s	4.0	32.4	48.5		
	GW	576761.65	-42949.90	4.0	40.2		4.0	JZ . 4	40.5	100-HR-3 OP. UNIT	

age 1 of 1

# (WIS Interface - Survey Information - Horizontal

WELL_ID	WELL_NAME	SURVEY_CONTRACTOR	DATUM_TYPE	SURVEY_DATE	MEASUREMENT_METHOD	NORTHING	EASTING	SURVEY UNITS	QUALIFIER	CC
A9083	699-92-47	вні	NAD83(91)	01/01/1801	ESTIMATED	151545	575474	m	D	
***************************************	***************************************	6		<b></b>			······································	······································		L

	SURVEY DAT	A REPORT			quest No. 4-507	
ect No.	Title: Well Decommissioning: A9	083 /699-92-46	<b>.</b>	I	e No. T14R26	
Job No.	Prepared By	epared By Date Reviewer				Page
65400811.1225400 CA10	Tim Johnson 9/24/2007				<b>/</b>	1 of 1
	DESCRIPTION OF WORK		DISTRIBUTION	SDR	PLOT	DWG
Stake or locate Well As	9083 in support of well decommi	ssioning at coordinates	Survey File	OR		
	information for WAR Report. (	Obtain ground	S.H. Worley	1		
elevation and take phot	o of staked location or well.		B.J. Howard	I		
Horizontal Datum: W(	CS83S/91 (Meters)		E.C. Rafuse	1		
Vertical Datum: NAV			G.G. Kelty	1		
	ble GPS 5800 RTK		W.D. Webber	1		

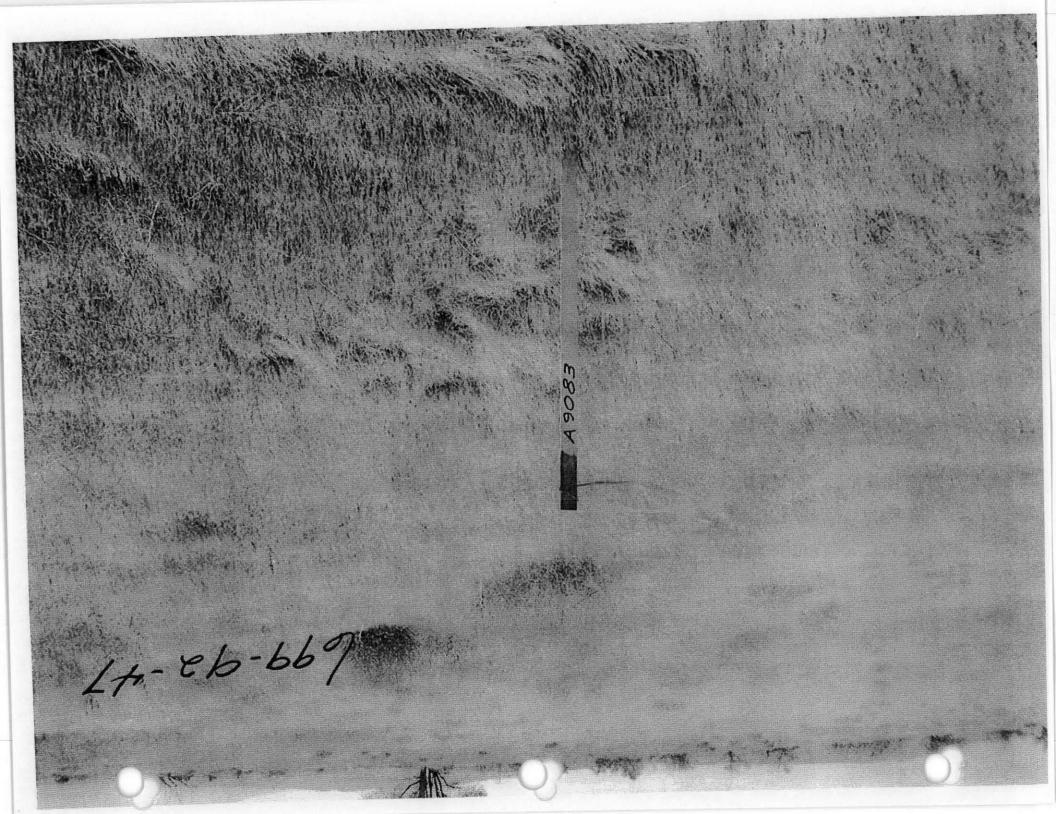
### SURVEY RESULTS AND COMMENTS

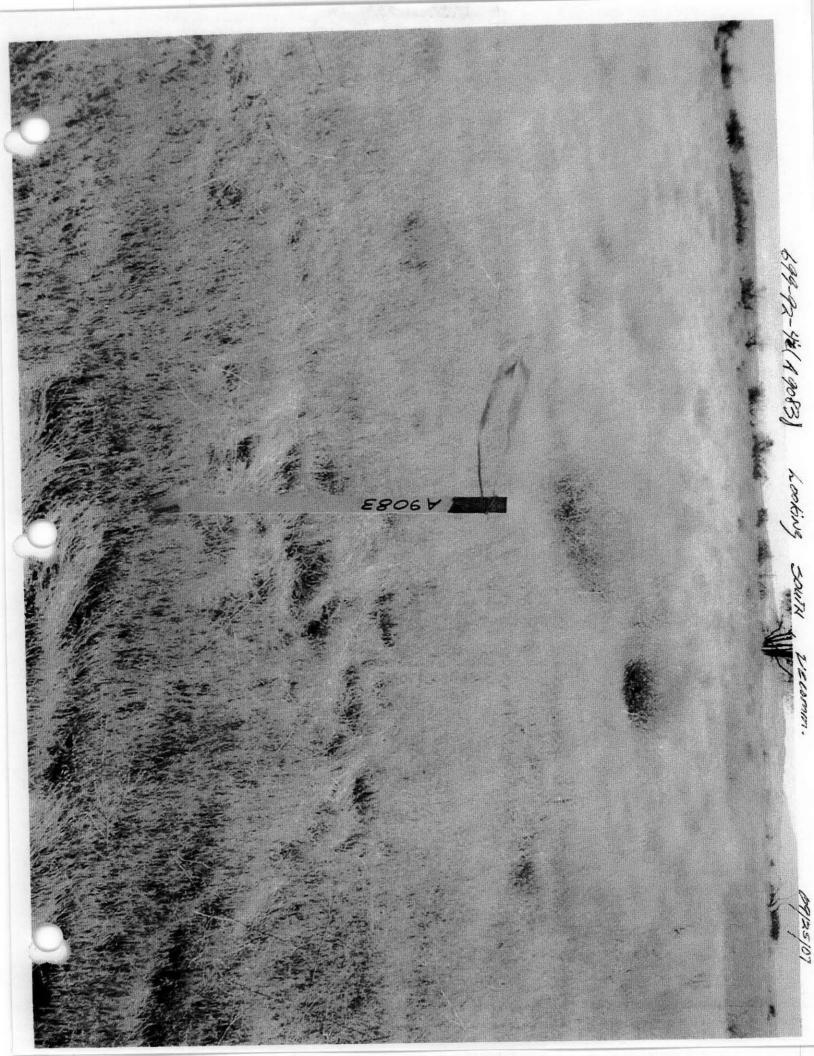
Name	Northing	Easting	Ground Elevation	Description
A9083	151545	575474	130.78	No evidence of well found at coordinates given. Set hub & lath.

TE: This Survey was performed under the supervision of a Licensed Professional Land Surveyor registered in the State of Washington.

E-NW-246 (09/04)

	SCAN DATA	REPORT					Request No. 074-509	:
iect No.:	Title: Well Decommissionin	ng: A9083 (G	round Sca	n) / 6599	-92-4	7	File No. : 600C-001	
Job No.: 65400811.1225400 CA10	Prepared by: Tim Johnson			Date: 9/25/07		Reviewe	1917	Page
DESCRIPTION OF WORK: Perform			aked	DISTRI	BUTION	SDR	SKETCH	DWG
location of Well A9083 in attemp	pt to locate possible burie	ed casings.		Survey F	ile	OR	OR	
				S.H. Wo	rley	1		
				B.J. How	/ard	1		
				E.C. Raf	use	1		
				G.G. Kel	ty	1		
				W.D. We	ebber	1		
						-·		· · · · · · · ·
DATE OF FIELD INVESTIGA	ATION: 9/20/2007	·						
Weather: Temp 70°F	Wind 5 MPH	Soil Condition	ons:	Rocky	X San	dy	Wet	Dry
Cloudy Clear	P. Cloudy Fog	Depth of Inv	estigation	8	feet			
quipment Used:				Function: Completed				
50/60 Hz detector (for e	nergized lines)							
Radio Frequency Electro	omagnetics (RF)							
Ground Penetrating Rad	ar (GPR)							
X Other (identify) Mag	netic Locator (Schonsted)	t)	$\boxtimes$					
GPR Antenna(s) Used:	1000 MHz	500	MHz		400 MH	z	300	MHz
Documentation Provided: None					·	·		
Limits of Investigation: 20' x 20'	area centered on staked p	osition of we	11.					
EQUIPMENT LIMITATIONS:					··· ·· -·			
1. Objects made of concrete, cla	y pipe, PVC pipe, and fib	perglass pipe	are genera	lly not det	ectable.			
<ol> <li>The transducers have a horizon 500 MHz is within 1 ft. of an 3 ft. of an existing structure.</li> </ol>	ontal scanning limit to exi existing structure; the 40	isting structur 0 MHz is wit	es: the 10 hin 1 ft. of	000 MHz is fan existin	s within 6 : sg structure	in. of an e; and the	existing strue 300 MHz i	cture; the s within
Discussion of Findings: Client is equipment limitations, soil /concre objects to be missed or incorrectly employees, staff and management injury or property damage. Contrallote: No evidence of well casing	ete conditions, utility cong located. Client assumes for application of safety c ctor shall not be liable for	gestion and ot such risk. It is controls durin	her factors s critical th g excavati	beyond C nat Client on, cutting	Contractor of delegate re or drilling	control n sponsibi activitie	nay cause su lity to its es to prevent	bsurface physical





699-93-37 A9084

SEE SIAN REPORT & PROTO. NO WELL FOUND IN RICK WHELE WELL WAS STAKED WELL DECOMM. EUROPOPO WELL ATTRIBUTES REPORT

WELL ID A9084 WELL NAME 699-93-37 HOST WELL ID			ST DATE ST DEPTH	LAST INSPECTION  NORTHING EASTING ELEVATION	1/1/1801 151728.7 578432.7 122.78	77
LAST INSPECTIO	N INFORMATIO	ON		CURRENT INSPECTION IN	FORMATION	
WELL PAD	☐ YES	□ NO	✓ ND*	WELL PAD	☐ YES	□ NO
BRASS SURVEY MARKER	YES	□ NO	✓ ND*	BRASS SURVEY MARKER	YES	□ NO
MARKER STAMPED WITH SURVEY DATA	\ ☐ YES	□ NO	☑ ND*	MARKER STAMPED WITH SURVEY DATA	YES	□ NO
MARKER STAMPED WITH WELL ID DATA	A S	□ NO	✓ ND*	MARKER STAMPED WITH WELL ID DATA	☐ YES	□ NO
WELL LABELED WITH WELL ID	☐ YES		✓ ND*	WELL LABELED WITH WELL ID	YES	□ NO
WELL LABELED WITH WELL NAME	☐ YES	□ NO	✓ ND*	WELL LABELED WITH WELL NAME	☐ YES	□ NO
PROTECTIVE POSTS	☐ YES	□ NO	✓ ND*	PROTECTIVE POSTS	YES	□ NO
REMOVABLE POST IN PLACE	☐ YES	□ NO	✓ ND*	REMOVABLE POST IN PLACE	☐ YES	□ NO
WELL LOCK	YES	□ NO	✓ ND*	WELL LOCK	YES	
WELL DAMAGED	YES	□ NO	✓ ND*	WELL DAMAGED	YES	□ NO
WELL IS DRY	YES	□ NO	✓ ND*	WELL IS DRY		□ NO
PARTED CASING	☐ YES	□ NO	✓ ND*	PARTED CASING	☐ YES	
BENTONITE IN WELL	│ □ YES	□ NO	✓ ND*	BENTONITE IN WELL	☐ YES	□ NO
WELL SANDED IN	YES	□ NO	✓ ND*	WELL SANDED IN	☐ YES	<u> </u>
DLLAPSED CASING	☐ YES	□ NO	✓ ND*	COLLAPSED CASING	☐ YES	
UIPMENT IN WELL	☐ YES	□ NO	✓ ND*	EQUIPMENT IN WELL	☐ YES	□ NO
DEBRIS IN WELL	☐ YES	□ NO	✓ ND*	DEBRIS IN WELL	YES	
SURFACE EROSION	☐ MAJOR	□ NON		SURFACE EROSION	☐ MAJOR	
		✓ ND*	_		☐ MINOR	□ NONE
LAST PUMP IN	NFORMATION			CURRENT PUMP INFO		
PUMP ACTIVITY PERFORMED	INSTAL	LED		PUMP ACTIVITY PERFORMED	INSTAL	LED
	REPLAC		✓ ND*	:	REPLAC	ED
PUMP TESTED	REMOV			PUMP TESTED	☐ REMOV	i
NEW PUMP	YES	□ NO	✓ ND*		YES	□ NO
ACTIVITY PEFORMED BY	VES YES	□ NO	✓ ND*	NEW PUMP	☐ YES	□ NO
DATE ACTIVITY PERFORMED	INU"			ACTIVITY PEFORMED BY		
PUMP TYPE	 			DATE ACTIVITY PERFORMED	·	
	ND*			PUMP TYPE		
PUMP MAKE	ND*			PUMP MAKE	<u> </u>	
	!ND*			PUMP MODEL		
PUMP INTAKE DEPTH (ft)				PUMP INTAKE DEPTH (ft)		
TUBING SIZE (in)				TUBING SIZE (in)		
TUBING MATERIAL	ND*			TUBING MATERIAL		
UBING LENGTH (ft)				TUBING LENGTH (ft)		
3ING CONNECTION	ND*			TUBING CONNECTION		

WELL DECOMM.

## **WELL ATTRIBUTES REPORT**

WELL TO A9084 WELL NAME 699-93-37 CONST DATE EASTING 578432.709 HOST WELL ID CONST DEPTH EASTING 578432.709    MEASUREMENT INFORMATION   LAST   CURRENT   D   C	IELD OR	DER NO					LAST INSPECTIO	ON 1/1/1801
HOST WELL ID  CONST DEPTH  ELEVATION  122.78  MEASUREMENT INFORMATION  LAST  CURRENT  A DEPTH TO WATER (ft)  DEPTH TO WATER DATE  B DEPTH TO BOTTOM (ft)  DEPTH TO BOTTOM (ft)  DEPTH TO BOTTOM (ft)  DEPTH TO BOTTOM (TTO BOTTOM (TTO BOTTOM INFORMATION)  CASING SIZE  TOP  BOTTOM  CASING SIZE  TOP  BOTTOM  MATERIAL  TYPE  CONNECTION  THICKNESS  PARANGES  SIZE  TOP  BOTTOM  MATERIAL  TYPE  SLOT SIZE  SLOT SIZE  SLOT SIZE  SLOT SIZE  SLOT SIZE  SLOT SIZE  SLOT SIZE  SLOT SIZE  SLOT SIZE  SLOT SIZE  SLOT SIZE  SLOT SIZE  SLOT SIZE  SLOT SIZE  SLOT SIZE  SLOT SIZE  SLOT SIZE  SLOT SIZE  SLOT SIZE  SLOT SIZE  SLOT SIZE  SLOT SIZE  SLOT SIZE  SLOT SIZE  SLOT SIZE  SLOT SIZE  SLOT SIZE	. *			<u> </u>			NORTHING	· · · · · · · · · · · · · · · · · · ·
MEASUREMENT INFORMATION  LAST CURRENT  DEPTH TO WATER DATE B DEPTH TO BOTTOM DATE STICK LIVITY  DEPTH TO BOTTOM DATE STICK LIVITY  DEPTH TO BOTTOM DATE STICK LIVITY  DEPTH TO BOTTOM DATE STICK LIVITY  DEPTH TO BOTTOM DATE STICK LIVITY  DEPTH TO BOTTOM DATE STICK LIVITY  DEPTH TO BOTTOM DATE  CASING SIZE  TOP BOTTOM CUTS/FT/ROUND  DEPTH TO BOTTOM OF Well  DEPTH TO BOTTOM OF WELL FROM TOP OF CASING C TOP OF CASING TO SURVEY REFERENCE MARKER  SIZE TOP BOTTOM MATERIAL  TYPE CONNECTION THICKNESS  SCREEN INFORMATION  SIZE TOP BOTTOM MATERIAL TYPE SLOT SIZE			699-93-37			· <del></del>		578432.709
A DEPTH TO WATER (R)  DEPTH TO WATER DATE  B DEPTH TO BOTTOM (R)  DEPTH TO BOTTOM DATE  C STICK UP(R)  D REFERENCE MARK IS TOC  YES NO NO NO NO YES NO  PERFORATION INFORMATION  CASING SIZE TOP BOTTOM CUTS/FT/ROUND  CASING SIZE TOP BOTTOM MATERIAL TYPE CONNECTION THICKNESS  SCREEN INFORMATION  SIZE TOP BOTTOM MATERIAL TYPE SLOT SIZE  SCREEN INFORMATION  SIZE TOP BOTTOM MATERIAL TYPE SLOT SIZE	HOS! WEL	LL ID			CONST DEPTH		ELEVATION	122.78
A DEPTH TO WATER DATE B DEPTH TO WATER DATE B DEPTH TO BOTTOM DATE C STICK UP(ft) D REFERENCE MARK (Ft) REFERENCE MARK IS TOC PERFORATION INFORMATION  CASING SIZE TOP BOTTOM CUTS/FT/ROUND  CASING SIZE TOP BOTTOM MATERIAL  CASING INFORMATION  SIZE TOP BOTTOM MATERIAL  SIZE TOP BOTTOM MATERIAL  TYPE CONNECTION THICKNESS  SCREEN INFORMATION  SIZE TOP BOTTOM MATERIAL  SIZE TOP BOTTOM MATERIAL  SIZE TOP BOTTOM MATERIAL  SIZE TOP BOTTOM MATERIAL  SIZE TOP BOTTOM MATERIAL  TYPE SLOT SIZE	.,		MEASUREM	ENT INFORMATION		·		
DEPTH TO WATER DATE B DEPTH TO BOTTOM (R) DEPTH TO BOTTOM DATE C STICK UP(ft) D REFERENCE MARK(R) REFERENCE MARK IS TOC  YES NO NO NOT NOT YES NO PERPORATION INFORMATION CASING SIZE TOP BOTTOM CUTS/FT/ROUND  CASING SIZE TOP BOTTOM CUTS/FT/ROUND  CASING INFORMATION CASING INFORMATION CASING INFORMATION  SIZE TOP BOTTOM MATERIAL TYPE CONNECTION THICKNESS  HANGES  SCREEN INFORMATION  SIZE TOP BOTTOM MATERIAL TYPE SLOT SIZE				LAST	CURRENT		c	
B DEPTH TO BOTTOM (AT IT)  DEPTH TO BOTTOM DATE  C STICK UP(ft)  D REFERENCE MARK(T)  REFERENCE MARK IS TOC  YES NO NO NOT YES NO  PERFORATION INFORMATION  CASING SIZE TOP BOTTOM CUTS/FT/ROUND  CASING SIZE TOP BOTTOM CUTS/FT/ROUND  CASING INFORMATION  CASING INFORMATION  CASING INFORMATION  CONNECTION THICKNESS  CONNECTION THICKNESS  SCREEN INFORMATION  SIZE TOP BOTTOM MATERIAL TYPE CONNECTION THICKNESS  SCREEN INFORMATION  SIZE TOP BOTTOM MATERIAL TYPE SLOT SIZE	A DEPTH TO	WATER(	ft)					
DEPTH TO BOTTOM DATE  STICK UP(ft)  REFERENCE MARK IS TOC  YES NO NO NO NO NO NO YES NO  PERFORATION INFORMATION  CASING SIZE TOP BOTTOM CUTS/FT/ROUND  CASING SIZE TOP BOTTOM CUTS/FT/ROUND  CASING SIZE TOP BOTTOM CUTS/FT/ROUND  CASING INFORMATION  CASING INFORMATION  CASING TO GROUND SUFFACE/PAD DO TOP OF CASING TO SURVEY REFERENCE MARKER  SIZE TOP BOTTOM MATERIAL TYPE CONNECTION THICKNESS  CASING INFORMATION  SIZE TOP BOTTOM MATERIAL TYPE SLOT SIZE	DEPTH TO	WATER I	DATE			<u> </u>	_	
STICK UP(ft)  DREFERENCE MARK (ft)  REFERENCE MARK IS TOC	B DEPTH TO	BOTTOM	l(ft)		<del></del>			
REFERENCE MARK (ft)  REFERENCE MARK IS TOC YES NO NO NO NO NO NO NO NO NO NO NO NO NO	DEPTH TO	BOTTOM	DATE			_		
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PERFORATION INFORMATION  CASING SIZE TOP BOTTOM CUTS/FT/ROUND  CHANGES  Depth to Bottom of Well  Depth to Bottom of Well  Depth to Bottom of Casing  CASING INFORMATION  CASING INFORMATION  CASING TOP BOTTOM MATERIAL  TYPE  CONNECTION  THICKNESS  SCREEN INFORMATION  SIZE TOP BOTTOM MATERIAL  TYPE SLOT SIZE  SCREEN INFORMATION  SIZE TOP BOTTOM MATERIAL  TYPE SLOT SIZE	REFERENC	E MARK(1	ft)			-		
PERFORATION INFORMATION  CASING SIZE TOP BOTTOM CUTS/FT/ROUND  Depth to Water  Depth to Bottom of Well  Depth to Bottom of Casing  A DEPTH TO WATER FROM TOP OF CASING B DEPTH TO BOTTOM OF WELL FROM TOP OF CASING C TOP OF CASING TO GROUND SURFACE/PAD D TOP OF CASING TO SURVEY REFERENCE MARKER  SIZE TOP BOTTOM MATERIAL TYPE CONNECTION THICKNESS  HANGES  SCREEN INFORMATION  SIZE TOP BOTTOM MATERIAL TYPE SLOT SIZE	REFERENC	E MARK I	S TOC TO	S NO V NO*	VES NO	-		В
CASING SIZE TOP BOTTOM CUTS/FT/ROUND  CHANGES  Depth to Bottom of Well  Depth to Bottom of Well  A DEPTH TO WATER FROM TOP OF CASING B DEPTH TO BOTTOM OF WELL FROM TOP OF CASING C TOP OF CASING TO GROUND SURFACE/PAD D TOP OF CASING TO SURVEY REFERENCE MARKER  SIZE TOP BOTTOM MATERIAL TYPE CONNECTION THICKNESS  HANGES  SCREEN INFORMATION  SIZE TOP BOTTOM MATERIAL TYPE SLOT SIZE								
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Depth to Bottom of Well  Depth to Bottom of Casing  A DEPTH TO WATER FROM TOP OF CASING B DEPTH TO BOTTOM OF WELL FROM TOP OF CASING C TOP OF CASING TO GROUND SURFACE/PAD D TOP OF CASING TO SURVEY REFERENCE MARKER  SIZE TOP BOTTOM MATERIAL TYPE CONNECTION THICKNESS  HANGES  SCREEN INFORMATION  SIZE TOP BOTTOM MATERIAL TYPE SLOT SIZE					•	<del>                                     </del>	opar to Trator	_
Depth to Bottom of Well  Depth to Bottom of Casing  A DEPTH TO WATER FROM TOP OF CASING B DEPTH TO BOTTOM OF WELL FROM TOP OF CASING C TOP OF CASING TO GROUND SURFACE/PAD D TOP OF CASING TO SURVEY REFERENCE MARKER  SIZE TOP BOTTOM MATERIAL TYPE CONNECTION THICKNESS  HANGES  SCREEN INFORMATION  SIZE TOP BOTTOM MATERIAL TYPE SLOT SIZE						333		
Depth to Bottom of Casing A DEPTH TO WATER FROM TOP OF CASING B DEPTH TO BOTTOM OF WELL FROM TOP OF CASING C TOP OF CASING TO GROUND SURFACE/PAD D TOP OF CASING TO SURVEY REFERENCE MARKER  SIZE TOP BOTTOM MATERIAL TYPE CONNECTION THICKNESS  HANGES  SCREEN INFORMATION  SIZE TOP BOTTOM MATERIAL TYPE SLOT SIZE	HANGES							
A DEPTH TO WATER FROM TOP OF CASING B DEPTH TO BOTTOM OF WELL FROM TOP OF CASING C TOP OF CASING TO GROUND SURFACE/PAD D TOP OF CASING TO SURVEY REFERENCE MARKER  SIZE TOP BOTTOM MATERIAL TYPE CONNECTION THICKNESS  HANGES  SCREEN INFORMATION  SIZE TOP BOTTOM MATERIAL TYPE SLOT SIZE	-						th to Bottom of W	'ell
CASING INFORMATION  CASING INFORMATION  CASING TO BOTTOM MATERIAL  TYPE  CONNECTION  THICKNESS  SCREEN INFORMATION  SIZE TOP BOTTOM MATERIAL  TYPE  SCREEN INFORMATION  SIZE TOP BOTTOM MATERIAL  TYPE  SLOT SIZE  TYPE  SLOT SIZE	,=					5.40# <u> </u>	Dept	h to Bottom of Casing
C TOP OF CASING TO GROUND SURFACE/PAD D TOP OF CASING TO SURVEY REFERENCE MARKER  SIZE TOP BOTTOM MATERIAL TYPE CONNECTION THICKNESS  HANGES  SCREEN INFORMATION  SIZE TOP BOTTOM MATERIAL TYPE SLOT SIZE								
SIZE TOP BOTTOM MATERIAL TYPE CONNECTION THICKNESS  HANGES  SCREEN INFORMATION  SIZE TOP BOTTOM MATERIAL TYPE SLOT SIZE			CASTNO	THEORNATION		C TOP OF CASIN	IG TO GROUND SUR	FACE/PAD
HANGES  SCREEN INFORMATION  SIZE TOP BOTTOM MATERIAL TYPE SLOT SIZE				INFORMATION		D TOP OF CASIF	IG TO SURVEY REFE	RENCE MARKER
SCREEN INFORMATION  SIZE TOP BOTTOM MATERIAL TYPE SLOT SIZE	SIZE	TOP	воттом	MATERIAL	ТҮРЕ	CONNECTION	THICKNESS	
SCREEN INFORMATION  SIZE TOP BOTTOM MATERIAL TYPE SLOT SIZE						<u> </u>		
SCREEN INFORMATION  SIZE TOP BOTTOM MATERIAL TYPE SLOT SIZE								
SIZE TOP BOTTOM MATERIAL TYPE SLOT SIZE	HANGES							
SIZE TOP BOTTOM MATERIAL TYPE SLOT SIZE			* ********	·····				
SIZE TOP BOTTOM MATERIAL TYPE SLOT SIZE								
SLOT SIZE			SCREEN	INFORMATION				
SLOT SIZE	SIZE	TOP	воттом	MATERIAL	TV	/DE	SLOT STATE	<del></del> -
IANGES						<u> </u>	SLUT SIZE	<del> </del> ,
IANGES								
	1ANGES							
								<del></del>

WELL NAME WELL T	COORDI	NATES PLANT	CASING ELEV WELL DIAM	DRILL_DEPTH COMPL_DEPTH			SCREEN		COMMENTS	PAGE 368
PUMP TY		NS/EW	DATE_COMPL	DEPTH_WATER	TYPE C	MAIC	TOP	вот	PREVIOUS WELL NAMES	
699-92-47 AB			420.00 56.0	49.0				•	FILLED IN T14NR26E24D1	
 699-92-49 GW B	151647.69 575063.38	92411.10 3 -48530.40	431.94 12.0	41.0 55.0 49.0					14/25-23A1	
699-93-37 AB		92650.00 -37475.00	399.32 72.0	29.0 19.0				·	FILLED IN 14/27-19A1, N.RUN	
699-93-46 GW		PNL-88	<del></del>	3						
699-93-48 GW	1	A Prepared for U	ness & J.K. .ugust 1993 .S. Dept of Ene	rgy under		4.0	41.2	62.3	100-HR-3 OP. UNIT	
699-93-49 AB	Pa		E-AC06-76RLO y Battelle Memo						FILLED IN T14NR26E14Q1	
699-93-49B GW										
699-93-50 AB		92871.00 -49884.00	446.00 60.0						FILLED IN	
699-93-93 OS			637.01 20.0 4/53	520.0 515.5 235.0	P 2	20.0	262.0	516.0	ARMY CAMP WELL 14/24-21B1, PSN	
699-94-47 AB		-	420.00 48.0	,					FILLED IN 14/26-13M1	
699-94-48 AB	· ·		424.30 60.0	39.0					FILLED IN 14/26-13M1, N.RUN	
699-96-43 GW	152605.54 576761.65	95550.40 -42949.90	421.84 4.0 4/92	40.2 48.5 38.4	s	4.0	32.4	48.5	100-HR-3 OP. UNIT	

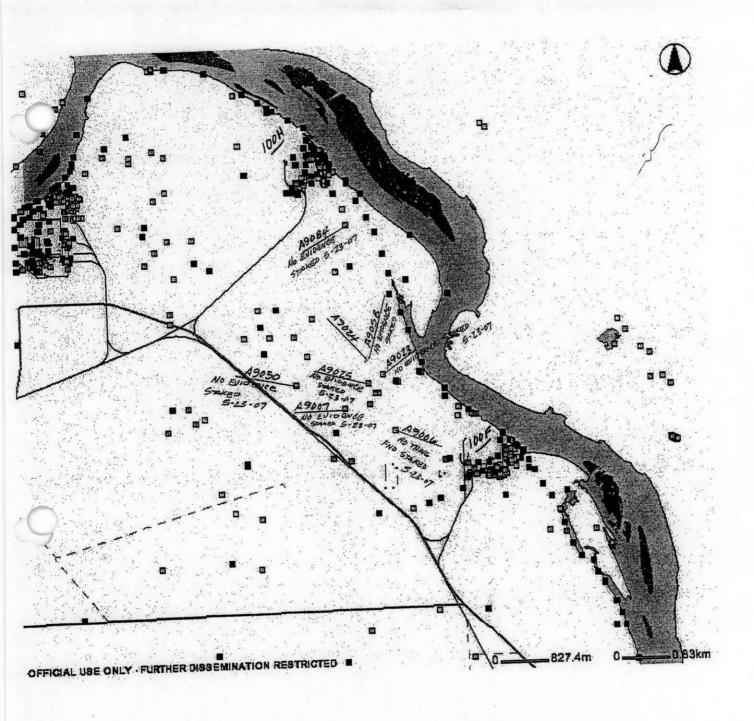
nation System

`age 1 of 1 Que., HWIS again

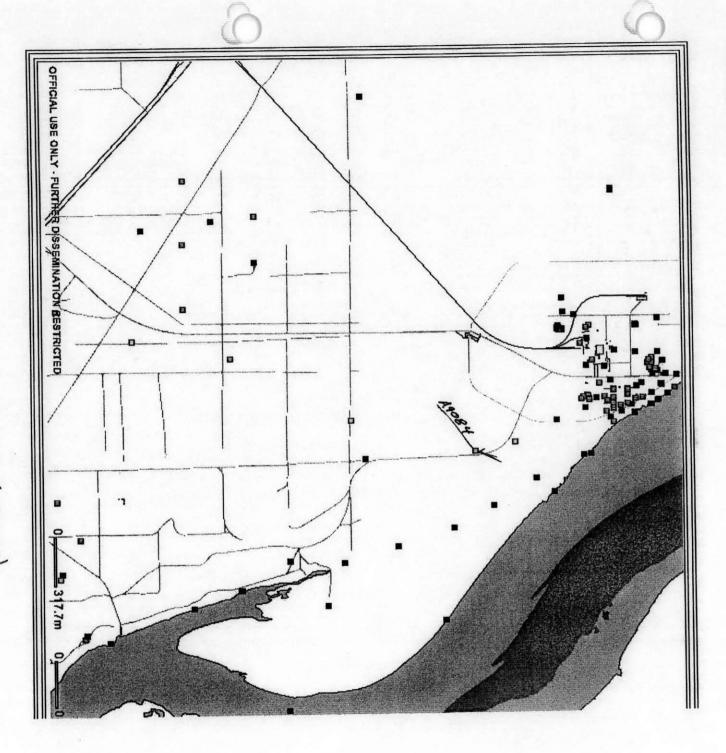
## IWIS Interface - Survey Information - Horizontal

		SURVEY_CONTRACTOR		SURVEY_DATE	MEASUREMENT_METHOD	NORTHING	\$	SURVEY_UNITS	<b>)</b>
•	699-93-37	UNKNOWN	NAD83	01/01/1801	CONVERTED		578432.709	m	

	SCAN DATA	REPORT	6	99-9	7		Request No.: 073-327	
Project No.:	Title: Well Decommissionin	g: A9084 (G			, <u>, ,</u>		File No. : 600C-001	
Јоб No.: 65400811.1225400 CA10	Prepared by: Tim Johnson			Date: 9/26/07	R	eviewer	Jens	Page
DESCRIPTION OF WORK: Perform g			ked	DISTRIBUT	ION	SOR	SKETCH	DWG
location of Well A9084 in attempt	to locate possible burie	d casings.		Survey File		OR	OR	
				S.H. Worley		1		
				B.J. Howard		1		
				E.C. Rafuse		1		<del></del>
				G.G. Kelty		1		
				W.D. Webber	г	1		
DATE OF FIELD INVESTIGAT	FION: 9/20/2007						<u></u> l	
Weather: Temp 70°F V	Vind 5 MPH	Soil Condition	ons:	Rocky 🔀	Sandy		Wet 🔀	Dry
	. Cloudy Fog	Depth of Inve	estigation	_8 fee	et			
	magnetics (RF) r (GPR) etic Locator (Schonstedt	;) 		Functional Ch Completed	necks			
GPR Antenna(s) Used:	1000 MHz	500	MHz	40	0 MHz		300	MHz
Documentation Provided: None  Limits of Investigation: 20' x 20' and and a second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second seco	rea centered on staked p	osition of we	11.					
EQUIPMENT LIMITATIONS:								
1. Objects made of concrete, clay	pipe, PVC pipe, and fib	erglass pipe	are genera	lly not detectab	ole.			
<ol> <li>The transducers have a horizon 500 MHz is within 1 ft. of an e</li> <li>3 ft. of an existing structure.</li> </ol>	tal scanning limit to exi xisting structure; the 400	sting structur 0 MHz is with	es: the 10 hin 1 ft. of	00 MHz is with an existing str	hin 6 in. ucture;	of an and the	existing stru 300 MHz i	cture; the s within
Discussion of Findings: Client is ac equipment limitations, soil /concret objects to be missed or incorrectly lemployees, staff and management for injury or property damage. Contract te: No evidence of well casing of	e conditions, utility cong ocated. Client assumes so or application of safety c tor shall not be liable for	estion and other such risk. It is controls durin	her factors critical th g excavati	beyond Contra at Client deleg on, cutting or d	actor co gate resp rilling a	ntrol n onsibi ctivitie	nay cause su lity to its es to prevent	bsurface



699-93-37 (A9084)



699-93-37 (A9084)

AWING SMETHER

699-93-50 A9086

	_	COORDIN		CACING PIPU	DRILL_DEPTH		PERF/	SCREEN		COMMENTS	PAGE 300
	E L TYPE P TYPE	COORDIN L 83 NS/EW	PLANT NS/EW	WELL DIAM DATE_COMPL	COMPL DEPTH DEPTH WATER		DIAM	TOP	вот	PREVIOUS WELL NAMES	
 699-92-47	AB			420.00 56.0	49.0					FILLED IN T14NR26E24D1	
699-92 <b>-4</b> 9	GW B	151647.69 575063.38	92411.10 -48530.40	431.94 12.0	41.0 55.0 49.0					14/25-23A1	
699-93-37	AB		92650.00 -37475.00		29.0 19.0					FILLED IN 14/27-19A1, N.RUN	
699-93-46	GW										
699-93-48	GW	151795.52 575094.32	92905.60 -48426.60	437.79 4.0 4/92	83.0 62.3 52.9	s	4.0	41.2	62.3	100-HR-3 OP. UNIT	
699-93-49	AB			405.22 60.0	58.0					FILLED IN T14NR26E14Q1	
699-93-49	B GW										
699-93-50	AB		92871.00 -49884.00						Annual Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the	FILLED IN	
699-93-93	os	a de la companya de la companya de la companya de la companya de la companya de la companya de la companya de			UC-903			262.0	516.0	ARMY CAMP WELL 14/24-21B1, PSN	
699-94-47	AB		Prepa		1993 ept of Energy und	der				FILLED IN 14/26-13M1	
699-94-48	AB			Contract DE-ACC NW Lab by Batto	06-76RLO 1830 elle Memorial Ins	stitute				FILLED IN 14/26-13M1, N.RUN	
699-96-43	GW	152605.54 576761.65	95550.40 -42949.90		40.2 48.5 38.4	s	4.0	32.4	48.5	100-HR-3 OP. UNIT	

Page 1 of 1 Que WIS again

## WIS Interface - Survey Information - Horizontal

VELL_ID	WELL_NAME				MEASUREMENT_METHOD		SURVEY_UNITS	QUALIFIER
<b>\</b> 9086	699-93-50	UNKNOWN	NAD83	01/01/1801	CONVERTED	151786.842	•	R

	SURVEY DATA	A REPORT	<i>a</i> 9	-93		quest No. 4-507	
P ct No.	Title: Well Decommissioning: A9	086	27,			e No. T14R26	
55 No. 65400811.1225400 CA10	Prepared By Tim Johnson	Date 9/24/2007	,	Reviewer	4.1	>	Page 1 of 1
	DESCRIPTION OF WORK		DISTR	IBUTION	SDR	PLOT	DWG
Stake or locate Well A	9086 in support of well decommi	ssioning at coordinates	Survey	File	OR		
given. If found, obtain	n information for WAR Report. (	Obtain ground	S.H. W	orley	1		
elevation and take phot	to of staked location or well.		B.J. Ho	ward	1		
TV	2020/01 (Matern)		E.C. Ra	afuse	1		
Horizontal Datum: Wo Vertical Datum: NAV			G.G. K	elty	1		***
VILLOUI INCOMINE I TILLY	able GPS 5800 RTK		WD	Vebber	1		

### SURVEY RESULTS AND COMMENTS

Name	Northing	Easting	Ground Elevation	Description
A9086	151786.84	574650.48	134.41	No evidence of well found at coordinates given. Set hub & lath.

TE: This Survey was performed under the supervision of a Licensed Professional Land Surveyor registered in the State of Washington.

	SCAN DATA I	REPORT					Request No.: 074-509	
Project No.:	Title: Well Decommissioning	g: A9086 (Gr	ound Scar	1)			File No. : 600C-001	
об No.: 65400811.1225400 CA10	Prepared by: Tim Johnson			Date: 9/25/07	R	Leviewer	(III)	Page 1 of 1
DESCRIPTION OF WORK: Perform	n ground scan (20' x20' Are	ea) around sta	ked	DISTRIBUT	ION	SDR	SKETCH	DWG
location of Well A9086 in atten	npt to locate possible buried	d casings.		Survey File		OR	OR	
				S.H. Worley		1		
				B.J. Howard		1		
				E.C. Rafuse		1		
				G.G. Kelty		1		
				W.D. Webbe	r	1		
				1				
DATE OF FIELD INVESTIG	GATION: 9/20/2007							
Weather: Temp 70°F	Wind 5 MPH	Soil Condition	ons:	Rocky	Sand	у 🗆	] Wet [	Dry
Cloudy Clear	P. Cloudy Fog	Depth of Inv	estigation	_8fe	et			
				d Functional C	hecks			
Fouipment Used:			Current	(Completed				
50/60 Hz detector (for								
Radio Frequency Elec								
Ground Penetrating R	adar (GPR)							
X Other (identify) Ma	agnetic Locator (Schonsted	lt)	×				•	
GPR Antenna(s) Used:	1000 MHz	50	0 MHz	4	00 MH2	<u> </u>	300	MHz
Documentation Provided: Non	e							
Limits of Investigation: 20' x 2	0' area centered on staked	position of w	ell.					<u>.</u> ,
EQUIPMENT LIMITATION	IS:							
1. Objects made of concrete,		iberglass pipe	are gener	ally not detect	able.			
2. The transducers have a hor 500 MHz is within 1 ft. of 3 ft. of an existing structure	an existing structure; the 4	xisting structu 00 MHz is wi	ires: the lithin 1 ft. o	000 MHz is woof an existing s	rithin 6 i structure	n. of a	n existing st he 300 MHz	ructure; the
Discussion of Findings: Client equipment limitations, soil /cor objects to be missed or incorrec employees, staff and manageme injury or property damage. Con	crete conditions, utility cor tily located. Client assume ont for application of safety	ngestion and o s such risk. It controls duri	other factoris critical ing excava	ors beyond Con that Client del ation,cutting or	tractor of legate re drilling	control sponsil activit	may cause s bility to its ties to preve	subsurface nt physical
te: No evidence of well cas	ing detected in scan area.							

98067 699-93699-94-47 A9088 SEE SORN SURRY & PROPS

WELL DECOMM. SUR

10/01/07

WELL ATTRIBUTES REPORT

.ELD ORDER NO						LAST INSPECTI	ON 1/1	1/1801	Ĺ
WELL ID	A9088					NORTHING	15	2352	
WELL NAME	699-94-47				IST DATE	EASTING	57!	5461	
HOST WELL ID				CON	IST DEPTH	ELEVATION	129	9.08	
	AST INSPECTI	DN INI	FORMAT	TON		CURRENT INSPECTION I	MEODIA	TYON	
WELL PAD									
BRASS SURVEY MARK	ER					I .	<del>                                     </del>	ES	№
		·A .					LY	ES	□ NO
			YES	<u></u> NO				ES	NO
		IA: [	YES	NO	✓ ND*	- <del> </del>	□ Y	ES	
<u> </u>		[	YES	□ NO	✓ ND*		□ <b>Y</b>	ES	□ NO
	WELL NAME	] [	YES		✓ ND*	WELL LABELED WITH WELL NAME	□ Y	ES	□ NO
PROTECTIVE POSTS			YES	□ NO	✓ ND*	PROTECTIVE POSTS	□ Y	ES	□ NO
REMOVABLE POST IN	PLACE	· [	YES		✓ ND*	REMOVABLE POST IN PLACE			
WELL LOCK			YES	□ NO	✓ ND*	WELL LOCK			
WELL DAMAGED						WELL DAMAGED			
WELL IS DRY		- <del></del>				WELL IS DRY			NO
PARTED CASING						PARTED CASING			<u></u> NO
BENTONITE IN WELL						BENTONITE IN WELL			NO
WELL SANDED IN			<del></del>					<u>ES</u>	<u> </u>
LLAPSED CASING					·		Y!	ES	NO
_QUIPMENT IN WELL				NO		<u> </u>	U Y	ES	NO
DEBRIS IN WELL				_ ∐ NO		<u></u>	YI	ES	ОИ
SURFACE EROSION		<u> </u>	YES	<u> </u>	✓ ND*		YE	ES	☐ NO
SORFACE ERUSION		-	_		E	SURFACE EROSION	□м	AJOR	
	LAST DIIMD T	NEODA		ND*					
PUMP ACTIVITY PERFO		TORI			·		RMATION	4	
		-	_		-Z ND*	POMP ACTIVITY PERPORMED			
			_		IZJ ND™				
PUMP TESTED						PLIMP TESTED	RI	EMOV	ED
NEW PUMP		<u> </u>			·		YI	ES	□ NO
ACTIVITY PEFORMED B	Y		YES	U NO	✓ ND*		Y	ES	□ NO
DATE ACTIVITY PERFO									
PUMP TYPE		NEW				i.			_
		,				PUMP TYPE			
PUMP MAKE		·				PUMP MAKE		5	
PUMP MODEL		ND*			<u></u>	PUMP MODEL			
PUMP INTAKE DEPTH (f	t)	!				PUMP INTAKE DEPTH (ft)			<del></del>
UBING SIZE (in)						TUBING SIZE (in)			
UBING MATERIAL		ND*	· <del></del>			TUBING MATERIAL			· · · · · · · · · · · · · · · · · · ·
'BING LENGTH (ft)	YES								
ING CONNECTION		ND*	<del></del> <u>-</u>			TUBING CONNECTION			

WELL DECOMM. SUR PHOTOS

# WELL ATTRIBUTES REPORT

ELD O	RDER NO							AST INSPECT	TON	1/1/1904
WELL IC		A9088						IORTHING	-014	1/1/1801 152352
WELL N		699-94-4	······································	CONST DATE				ASTING		575461
HOST W	ELL ID			CONST DEPTH			E	LEVATION		129.08
		MEASURE	MENT INFORMATION							
			LAST	CURRENT			_ T	C		
A DEPTH	TO WATER	₹ <b>(ft</b> )	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s						-	
DEPTH T	TO WATER	R DATE		<u> </u>	- -	7		<u></u>		
B DEPTH	то вотто	M(ft)			_				ĺ	
DEPTH	то вотто	M DATE								
C STICK U	IP(ft)				_				A	
REFERE	NCE MARK	(ft)			-					
REFERE	NCE MARK	IS TOC	'ES □ NO ☑ ND*	YES NO						В
				TES _ NO	_		İ			
		PERFORA	TION INFORMATION		!				ĺ	
CASING S	SIZE T	OP BOTTO	M CUTS/FT/ROUND			$\ \cdot\ $	SET Don	th to Water		
						H	A peb	TO MAGICI	<u>.</u>	
						34				
HANGES	·									
<del></del>	<u> </u>					62722		to Bottom of 1		
,										Bottom of Casi
								R FROM TOP OF OM OF WELL FR		
		CASING	INFORMATION		C TO	P OF	CASING :	TO GROUND SU TO SURVEY REF	RFACE	/PAD
SIZE	TOP	воттом	MATERIAL	TVPF						E MARKER
		DOTTOR	MATERIAL	TYPE	CON	INEC	TION	THICKNES	S	
IANGES		SCOFEN	INCORMATION							
	·		INFORMATION	_						
SIZE	TOP	воттом	MATERIAL	TY	PE			SLOT SIZE		
IANGES				!			:			

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WELL NAME	E L TYPE	COORDII L 83		CASING ELEV			PERF	SCREEN		COMMENTS	PAGE 368
	TYPE	NS/EW	PLANT NS/EW	WELL DIAM DATE COMPL	COMPL_DEPTH DEPTH_WATER		E DIAM	TOP	вот	PREVIOUS WELL NAMES	
699-92-47				420.00	40.0				,		
	AB			56.0	49.0					FILLED IN	
600 00 40										T14NR26E24D1	
699-92-49	GW	151647.69 575063.38	92411.10 -48530.40	431.94 12.0	41.0 55.0						
	В		11330.40	12.0	49.0					14/25-23A1	
699-93-37			92650.00	399.32	29.0						
	AB		-37475.00	72.0						FILLED IN	
699-93-46					19.0					14/27-19A1, N.RUN	
	GW										
699-93-48		151795.52	92905.60	437.79	83.0	s	4.0	41.0	60.3		
	GW	575094.32	-48426.60	4.0	62.3		4.0	41.2	62.3	100-HR-3 OP. UNIT	
699-93-49				4/92	52.9						
	AВ	•		405.22 60.0	58.0					FILLED IN	
										T14NR26E14Q1	
699-93 <b>-4</b> 9B											
	GW										
699-93-50	-		92871.00	446.00							
	AB		-49884.00	60.0						FILLED IN	
599-93-93				637.01	520.0	₽	20.0	262.0	516.0	ARMY CAMP WELL	
,	os			20.0 4/53	515.5 235.0					14/24-21B1, PSN	
99-94-47											_
	AB			420.00 48.0						FILLED IN	
							<del></del>	··		14/26-13M1	ノ
99-94-48	AB			Hanford						FILLED IN	
		ংগছ <u>ে</u>	М	<u>PNL-8800</u> I.A.Chamness	UC-903 & J.K. Merz					14/26-13M1, N.RUN	
99-96-43		152605. 576761.		August 1	1993			32.4	48.5	100-HR-3 OP. UNIT	
	•••	J,0101,			ot of Energy und	er				699-91-43	
		Par		ontract DE-AC06 by Battelle Memo							
				, battone mem	J. Idi III GII GIC						

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WIS Interface - Survey Information - Horizontal

WELL_ID	WELL_NAME	SURVEY_CONTRACTOR	DATUM_TYPE	SURVEY_DATE	MEASUREMENT_METHOD	NORTHING	EASTING	SURVEY_UNITS	QUALIFIER	СС
A9088	699-94-47	ВНІ	NAD83(91)	01/01/1801	ESTIMATED	152352	575461	m	D	
			······································			} •~~~~~~~~	***************************************	***************************************	) ••••••••••••••••••••••••••••••••••••	<u> </u>

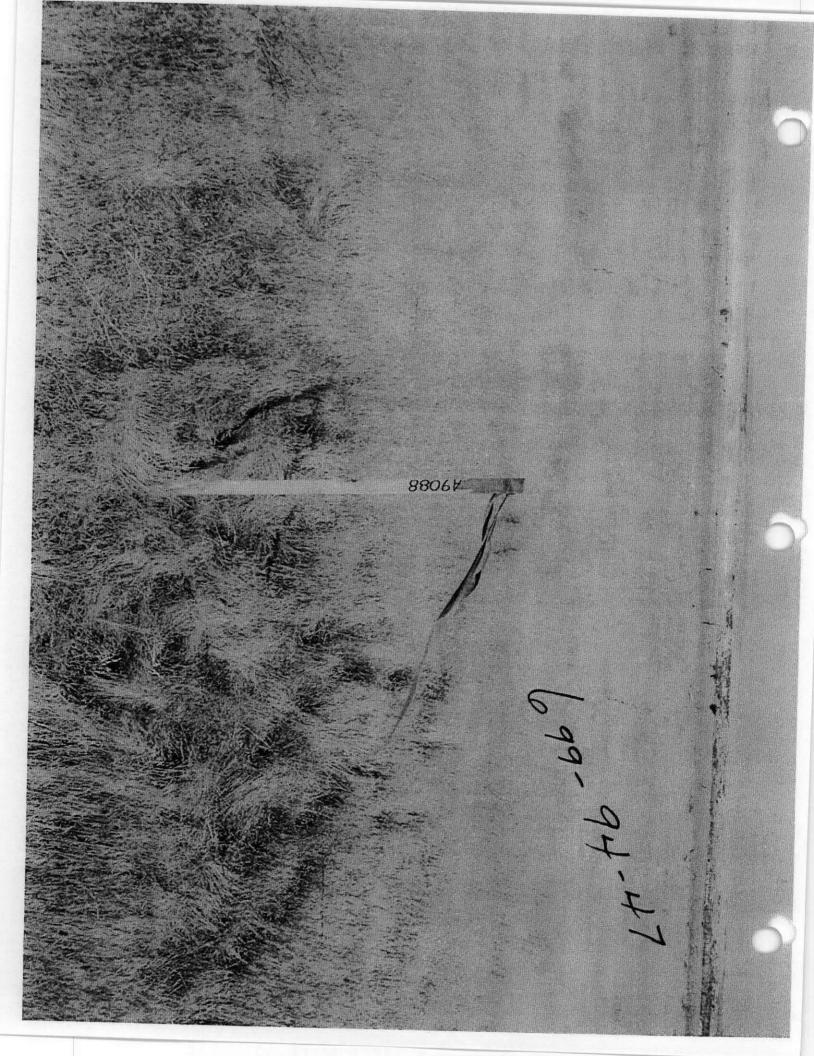
	SURVEY DATA REPORT riect No. Title: 47									
iect No.	Title: Well Decommissioning: A908	1	e No. T14R26	-						
ob No. 65400811,1225400 CA10	0811.1225400 Tim Johnson 9/24/2007									
	DESCRIPTION OF WORK		DIST	RIBUTION	SDR	PLOT	DWG			
Stake or locate Well As	0088 in support of well decommiss	ioning at coordinate			OR					
given. Il found, obtain	information for WAR Report. Ob o of staked location or well.	otain ground	S.H. V	Vorley	1					
cievation and take phot	o or staked location or well.		B.J. H	oward	1					
Horizontal Datum: WC	CS83S/91 (Meters)		E.C. R	afuse	1					
Vertical Datum: NAVI			G.G. K	Celty	1		<del></del>			
Equipment Used: Trim	ble GPS 5800 RTK		W.D.	Webber	1					

### SURVEY RESULTS AND COMMENTS

Name	Northing	Easting	Ground Elevation	Description
A9088	152352	575461	130.42	No evidence of well found at coordinates given.

"OTE: This Survey was performed under the supervision of a Licensed Professional Land Surveyor registered in the State of Washington.

	Request No.: 074-509							
Project No.:	Title: Well Decommissioning: A9088 (Ground Scan)						File No. : 600C-001	
ob No.: 65400811.1225400 CA10	Date: 9/25/07		Reviewe	THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE S	Page			
DESCRIPTION OF WORK: Perform g location of Well A9088 in attempt	DISTRIBUTION		SDR	SKETCH	DWG			
1 200 m atompt	Survey File		OR	OR	·			
	S.H. Worley		1					
	B.J. Howard		1		<del></del>			
	E.C. Rafuse		1					
	G.G. Kelty		1	-	<del>-</del>			
	W.D. Webber		1		<del>-</del>			
DATE OF FIELD INVESTIGAT	TION: 9/20/2007					<del></del>	<u>_</u>	
Weather: Temp_70°F Wind_5 MPH Soil Condition				Rocky	San	dy [	Wet 🔀	Dry
Cloudy Clear P.	Cloudy Fog	Depth of Inv	estigation	8	feet			
Equipment Used:	Required Current/0	Functiona	l Checks	·		·		
50/60 Hz detector (for ene								
Radio Frequency Electron								
Ground Penetrating Radar			<b>_</b>					
X Other (identify) Magne	tic Locator (Schonstedt	)	$\boxtimes$					
GPR Antenna(s) Used:	] 1000 MHz	500	MHz	400 MHz			300 N	———— ЛН-7
Documentation Provided: None								
Limits of Investigation: 20' x 20' are	ea centered on staked po	osition of we	11.					
EQUIPMENT LIMITATIONS:								
1. Objects made of concrete, clay 1	pipe, PVC pipe, and fib	erglass pipe	are general	ly not dete	ctable.			
<ol> <li>The transducers have a horizont 500 MHz is within 1 ft. of an ex 3 ft. of an existing structure.</li> </ol>	al scanning limit to exis	sting structur	es: the 10:	∩∩ MTI′~ io	vrithin 6 :-	n. of an e ; and the	existing structions 300 MHz is	ture; the within
Discussion of Findings: Client is adequipment limitations, soil /concrete objects to be missed or incorrectly logarithms of the property damage. Contractor injury or property damage. Contractor lote: No evidence of well casing definitions.	conditions, utility congreated. Client assumes s application of safety cor or shall not be liable for	estion and oth such risk. It is ontrols during	her factors critical the excavation	beyond Co at Client do	elegate res	ontrol m ponsibil	ay cause sub	surface





699-94-48 A9089 Were Decomm que 10/01/07

					LAST INSPECTION		
FIELD ORDER NO	A9089				NORTHING	152223.882	
WELL ID	699-94-48		CONST	DATE	EASTING	575262.019	9
WELL NAME	699-94-46			DEPTH	ELEVATION		
HOST WELL ID			-				
	AST INSPECTION	INFORMATIC	N		CURRENT INSPECTION IN	ORMATION	
WELL PAD		YES	□ NO	✓ ND*	WELL PAD	YES	□ NO
BRASS SURVEY MARK	ŒR	YES	□ NO	✓ ND*	BRASS SURVEY MARKER	YES	□ NO
MARKER STAMPED W	ITH SURVEY DATA	YES	□ NO	✓ ND*	MARKER STAMPED WITH SURVEY DATA	YES	□ NO
MARKER STAMPED W	TTH WELL ID DATA	YES	□ NO	✓ ND*	MARKER STAMPED WITH WELL ID DATA	YES	□ №
WELL LABELED WITH	WELL ID	YES	□ NO	✓ ND*	WELL LABELED WITH WELL ID	YES	□ №
WELL LABELED WITH	I WELL NAME	☐ YES	□ NO	✓ ND*	WELL LABELED WITH WELL NAME	YES	□ NO
PROTECTIVE POSTS		YES	□ NO	✓ ND*	PROTECTIVE POSTS	YES	□ NO
REMOVABLE POST IN	I PLACE	YES	□ NO	✓ ND*	REMOVABLE POST IN PLACE	☐ YES	□ NO
WELL LOCK		YES	□ NO	✓ ND*	WELL LOCK	YES	□ NO
WELL DAMAGED		☐ YES	□ NO	✓ ND*	WELL DAMAGED	YES	□ NO
WELL IS DRY		YES	□ NO	✓ ND*	WELL IS DRY	☐ YES	□ NO
PARTED CASING		☐ YES	□ NO	✓ ND*	PARTED CASING	☐ YES	□ NO
BENTONITE IN WELL	-	YES	□ NO	✓ ND*	BENTONITE IN WELL	YES	□ NO
VELL SANDED IN		☐ YES	□ NO	✓ ND*	WELL SANDED IN	YES	□ NO
OLLAPSED CASING		☐ YES		✓ ND*	COLLAPSED CASING	YES	□ NO
EQUIPMENT IN WELL	L	☐ YES		✓ ND*	EQUIPMENT IN WELL	☐ YES	<u> </u>
DEBRIS IN WELL		☐ YES	□ NO	✓ ND*	DEBRIS IN WELL	YES	□ NO
SURFACE EROSION		OLAM 🗆		E	SURFACE EROSION	☐ MAJOR ☐ MINOR	NONE
		☐ MINOR ☑ ND*			CURRENT PUMP INFO		
	LAST PUMP IN	FORMATION				T	
PUMP ACTIVITY PER	FORMED	☐ INSTA	ALLED	_	PUMP ACTIVITY PERFORMED	☐ INSTAL	
		REPL/	ACED	✓ ND*		REPLAC	
		REMO	OVED			REMOV	/ED
PUMP TESTED		YES	☐ NO	✓ ND*	PUMP TESTED	YES	□ NO
NEW PUMP		☐ YES	□ NO	✓ ND*	NEW PUMP	☐ YES	□ NO
ACTIVITY PEFORME	D BY	ND*			ACTIVITY PEFORMED BY		
DATE ACTIVITY PER	FORMED				DATE ACTIVITY PERFORMED		
PUMP TYPE		ND*			PUMP TYPE		
PUMP MAKE		ND*			PUMP MAKE	<u> </u>	
PUMP MODEL		ND*	· · · · · · · · · · · · · · · · · · ·		PUMP MODEL	<u> </u>	
PUMP INTAKE DEPT	H (ft)	ı			PUMP INTAKE DEPTH (ft)		
TUBING SIZE (in)					TUBING SIZE (in)		
TUBING MATERIAL		ND*			TUBING MATERIAL	 	
BING LENGTH (ft)	)				TUBING LENGTH (ft)	<u> </u>	
JBING CONNECTION	ON	ND*			TUBING CONNECTION	<u> </u>	

SEE SULLY, SCAN & PHOTO &
WELL DECOMM. CON
10/01/07
WELL ATTRIBUTES REPORT

FIELD ORDER NO						LAST INSPE	CTION	1/1/1801
WELL ID	A9089		NOT 5 4 TE			NORTHING EASTING		152223.882 575262.019
WELL NAME	699-94-48		NST DATE NST DEPTH		_	ELEVATION		5/3202.019
HOST WELL ID								
	MEASURE	MENT INFORMATION					1	<del></del>
		LAST	CURRENT	_   I	┼┼┐ ┆	<u>D</u>	С	
DEPTH TO WATER	(ft)					↓		
DEPTH TO WATER	DATE					<b>-</b>		
В DEPTH ТО ВОТТО	M(ft)							
DEPTH TO BOTTO	M DATE	ĺ					_ A	
STICK UP(ft)				_				
D REFERENCE MARK	(ft)						İ	
REFERENCE MARK	IS TOC ,	res □ no ☑ no*	☐ YES ☐ NO					В
		TION INFORMATION						
CASING SIZE	OP BOTTO	OM CUTS/FT/ROUND				Depth to Wate	er	
					<del>+                                      </del>	· · · · · · · · · · · · · · · · · · ·	<del></del> _	
CHANGES					<u> </u>		·	
					υе	pth to Botton		Bottom of Casing
1' H				A DE	ртн то у	··· VATER FROM TO	•	_
				B DE	ртн то в	OTTOM OF WE	⊥ FROM T	OP OF CASING
	CASIN	G INFORMATION		•		ING TO GROUN ING TO SURVE		
CITC TOD	воттом	MATERIAL	TYPE	CON	INECTIO	N THIC	NESS	
SIZE TOP	BUTTOM	MATERIAL	1166	-	INCO I CO	17120	(11235	] ; ;
								•
CHANGES								
<del></del>			·				•	<del></del>
	SCREE	N INFORMATION						
SIZE TOP	воттом	MATERIAL	7	YPE		SLOT	SIZE	
			1			· · · · · · · · · · · · · · · · · · ·		<del>:</del>
CHANGES								
:HANGES								

												PAGE 300
WELL	NAME		COORDINA	ATES	CASING ELEV	DRILL_DEPTH		PERF/S	CREEN		COMMENTS	
	WELL	TYPE TYPE	L 83 NS/EW	PLANT NS/EW	WELL_DIAM DATE_COMPL	COMPL DEPTH DEPTH WATER	TYPE	DIAM	TOP	BOT	PREVIOUS WELL NAMES	
					420.00	49.0				•	FILLED IN	
699-92		AB			56.0						T14NR26E24D1	
699-92	2-49		151647.69	92411.10	431.94	41.0 55.0						
		GW B	575063.38	-48530.40	12.0	49.0					14/25-23A1	
699-93	3-37			92650.00	399.32	29.0					FILLED IN	
		AB		-37475.00	72.0	19.0					14/27-19A1, N.RUN	
699-93		GW										
699-93		GW	151795.52 575094.32	92905.60 -48426.60	437.79 4.0 4/92	83.0 62.3 52.9	s	4.0	41.2	62.3	100-HR-3 OP. UNIT	
	2 40				405.22	58.0					FILLED IN	
699-9		AB			60.0						T14NR26E14Q1	
699-9	3-491	GW										
699-9	3-50	AB			Hanford V	Vells uc-903					FILLED IN	
				M.A	Chamness &	J.K. Merz		3	262.0	516.0	ARMY CAMP WELL	
699-9	3-93	os		Propare	August 19	93 of Energy under					14/24-21B1, PSN	
699-9	4 47			Conf	tract DE-AC06-7	76RLO 1830					FILLED IN	
699-9	4-47	AB	Pacific	NW Lab by	Battelle Memori	al Institute —_					14/26-13M1	
699-9	A-48				424.30	39.0					FILLED IN	
<i>999-3</i>	- 40	AB			60.0						14/26-13M1, N.RUN	
699-9	6-43	<u></u>	152605.54	95550.40		40.2	S	4.0	32.4	48.5	100-HR-3 OP. UNIT	
20-		GW	576761.65	-42949.90	4.0 4/92	48.5 38.4					699-91-43	

nation System

# **IWIS Interface - Survey Information - Horizontal**

WELL ID	WELL NAME	SURVEY CONTRACTOR	DATUM_TYPE	SURVEY_DATE	MEASUREMENT_METHOD	NORTHING	EASTING	SURVEY_UNITS	QUALIFIER
A9089	600 04 49	LINIKNIOWAL	NAD83	01/01/1801	CONVERTED	152223.882	575262.019	m	R

	SURVEY DATA	A REPORT		l l	quest No. I-507		
nject No.	Title: Well Decommissioning: A90		File No. 6AT14R26				
Job No. 65400811.1225400	Prepared By Tim Johnson	Date   Reviewer   9/24/2007		ETT.	3/	Page 1 of 1	
CA10	DESCRIPTION OF WORK		DISTRIBUTION	SDR	PLOT	DWG	
	9089 in support of well decommi	ssioning at coordinates	Survey File	OR			
Stake or locate Well As	information for WAR Report.	Obtain ground	S.H. Worley	1			
elevation and take phot	o of staked location or well.		B.J. Howard	1			
			E.C. Rafuse	11			
Horizontal Datum: Wo	CS83S/91 (Meters)		G.G. Kelty	11			
Vertical Datum: NAVD88 (Meters) Equipment Used: Trimble GPS 5800 RTK			W.D. Webber	1		<u> </u>	

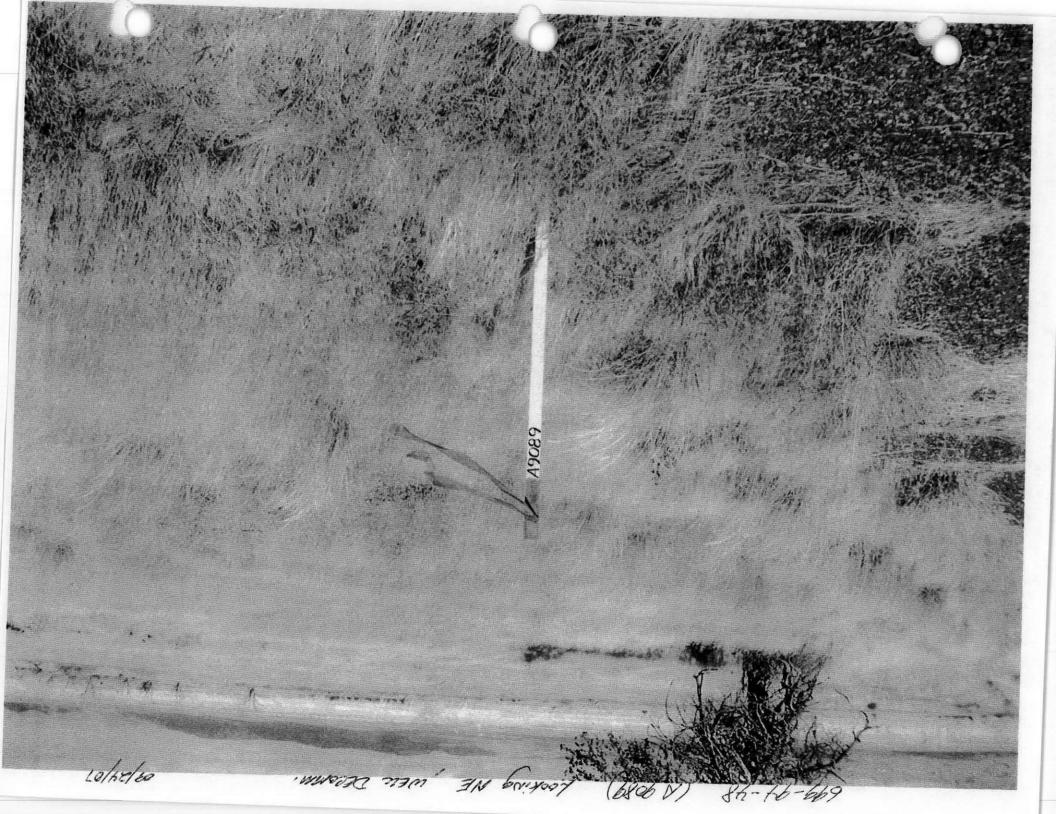
### SURVEY RESULTS AND COMMENTS

Name	Northing	Easting	Ground Elevation	Description
A9089	152223.88	575262.02		No evidence of well found at coordinates given. Set hub & lath.

NOTE: This Survey was performed under the supervision of a Licensed Professional Land Surveyor registered in the State of Washington.

	SCAN DATA R	EPORT				Request No.: 074-509	
ect No.:	Title: Well Decommissioning:		and Scan	)	-	File No.: 600C-001	
Job No.: 65400811.1225400 CA10	Prepared by: Tim Johnson	<u></u>		Date: 9/25/07	Reviewer	4.55	Page 1 of 1
		a) around stake	ed	DISTRIBUTION	SDR	SKETCH	DWG
DESCRIPTION OF WORK: Perform location of Well A9089 in attempt	n ground scan (20 x20 Alca apt to locate possible buried	casings.		Survey File	OR	OR	
Total of the same				S.H. Worley	1		
				B.J. Howard	1		
				E.C. Rafuse	1		
				G.G. Kelty	1		
				W.D. Webber	1		
					_		
	GATION: 9/20/2007			1			
DATE OF FIELD INVESTIG		Soil Conditio	ns:	Rocky S	Sandy	Wet	Dry
Weather: Temp 70°F	Wind 5 MPH P. Cloudy Fog	Depth of Inve		8 feet			
GPR Antenna(s) Used: Documentation Provided: Not Limits of Investigation: 20' x  EQUIPMENT LIMITATIO  1. Objects made of concrete	ctromagnetics (RF) Radar (GPR) Ingretic Locator (Schonsted) 1000 MHz  1000 MHz  20' area centered on staked  NS:  c, clay pipe, PVC pipe, and forizontal scanning limit to end of an existing structure; the 4	position of we	are gene	1000 MHz is with:	e.	f an existing	0 MHz structure; the
Discussion of Findings: Clier equipment limitations, soil /co objects to be missed or incorr employees, staff and managen injury or property damage. Co	ectly located. Client assume nent for application of safet ontractor shall not be liable	es such risk. It y controls dur for any injuri	is critica	al that Client delega	ate respor	nsibility to its ivities to pre-	s vent physica
bte: No evidence of well c	asing detected in scan area.						





84-76-669 2609A

1

WELL ID	A9092	NORTHING	153040.6 FIELD ORDER	NO .
WELL NAME	699-97-48	EASTING	575262.6 LAST INSPEC	TION 1/1/1801
HOST WELL ID		ELEVATION	125.802 <b>CONST DATE</b>	
<b>GW OPERABLE UNIT</b>	100-HR-3-D	DRILL DATE	CONST DEPTH	1
PROGRAMS				
WASTE SITES 50FT				
WM PLAN(S)				
WASTE STORAGE(S)				
LAST IN	SPECTION INFORMAT	ION	CURRENT INSPECTION	ON INFORMATION
WELL PAD	YE	S NO V ND	WELL PAD	YES NO
BRASS SURVEY MARKER	YE		BRASS SURVEY MARKER	YES NO
MARKER STAMPED WITH	SURVEY DATA YE	S I NO 🛂 ND	MARKER STAMPED WITH SURVEY D	
MARKER STAMPED WITH	I WELL ID DATA 📃 YE	S NO V ND	MARKER STAMPED WITH WELL ID D	OATA YES NO
WELL LABELED WITH WE	LL ID YE	S NO V ND	WELL LABELED WITH WELL ID	YES NO
WELL LABELED WITH WE	ELL NAME YE	S 🗌 NO 🗸 ND	WELL LABELED WITH WELL NAME	YES NO
PROTECTIVE POSTS	YE	S 🗌 NO 🗹 ND	PROTECTIVE POSTS	YES NO
REMOVABLE POST IN PL	ACE YE	S 🗔 NO 🗹 ND	REMOVABLE POST IN PLACE	YES NO
WELL LOCK	YE		WELL LOCK	YES NO
WELL DAMAGED	☐ YE		WELL DAMAGED	YES NO
WELL IS DRY	YE		WELL IS DRY	YES NO
PARTED CASING	YE:		PARTED CASING	YES NO
BENTONITE IN WELL	YE:		BENTONITE IN WELL	YES NO
WELL SANDED IN	YE:		WELL SANDED IN	YES NO
COLLAPSED CASING	☐ YES		COLLAPSED CASING	YES NO
EQUIPMENT IN WELL	YES		EQUIPMENT IN WELL	YES NO
DEBRIS IN WELL	YES		DEBRIS IN WELL	YES NO
SURFACE EROSION	<u> </u>	JOR 🗹 ND	SURFACE EROSION	MAJOR
	<u> </u>			MINOR
LAST	PUMP INFORMATION	IVE	CURRENT PUMP I	NONE
PUMP ACTIVITY PERFORI	<del></del>	TALLED V ND	PUMP ACTIVITY PERFORMED	INSTALLED
i		PECTED	TOM ACTIVITY FERIORIED	INSPECTED
	☐ NO			NONE
	=	MOVED	I	REMOVED
	! ====	PLACED		REPLACED
ļ	' =	PAIRED		REPAIRED
ACTIVITY PEFORMED BY			ACTIVITY PEFORMED BY	
DATE ACTIVITY PERFORM	1ED		DATE ACTIVITY PERFORMED	1 /
PUMP IN WELL	☐ YES	NO <b>✓</b> ND	PUMP IN WELL	YES NO
PUMP TESTED	YES	<u></u>	PUMP TESTED	YES NO
NEW PUMP	YES		NEW PUMP	YES NO
PUMP TYPE			PUMP TYPE	
PUMP MAKE			PUMP MAKE	
PUMP MODEL			PUMP MODEL	
PUMP INTAKE DEPTH (ft)			PUMP INTAKE DEPTH (ft)	1
	UBING INFORMATION		CURRENT TUBING	INFORMATION
TUBING SIZE (in)			TUBING SIZE (in)	
TUBING MATERIAL			TUBING MATERIAL	į
TUBING LENGTH (ft)			TUBING LENGTH (ft)	i
TUBING CONNECTION			TUBING CONNECTION	
	UREMENT INFORMAT	ION	CURRENT MEASUREME	NT INFORMATION
DEPTH TO WATER CATE	!		DEPTH TO WATER(ft)	
DEPTH TO WATER DATE	<u> </u>		DEPTH TO WATER DATE	
DEPTH TO BOTTOM(ft)	<u> </u>		DEPTH TO BOTTOM(ft)	
DEPTH TO BOTTOM DATE			DEPTH TO BOTTOM DATE	
STICK UP(ft) REFERENCE MARK(ft)			STICK UP(ft)	
REFERENCE MARK IS TOC		NO STAIR	REFERENCE MARK (ft)	· ·
NEI EINERCE MARK 13 TUC	YES	NO ₹ ND	REFERENCE MARK IS TOC	YES NO

WELL ID WELL NAME HOST WELL ID GW OPERABLE PROGRAMS WASTE SITES 5 WM PLAN(S) WASTE STORAG	UNIT 100-HR-3-D	NORTHING EASTING ELEVATION DRILL DATE	153040.6 575262.6 125.802	FIELD OR LAST INS CONST DO CONST DO	PECTION ATE	1/1/180	L
		WELL ATTR	IBUTE COMM	ENTS			
		CASING	INFORMATIO	N			
SIZE/UNITS	TOP/BOT/UNITS	MATERIAL	TYPE	CONNECTION	THICKNES	S/UNITS	REMOVED
		SCREEN	INFORMATIO	N			
SIZE/UNITS	TOP/BOT/UNITS	MATERIAL		TYPE	SLOT SIZE	/UNITS	REMOVED
CHANGES							
		PERFORATIO	ON INFORMAT	TION			
CASING SIZE	/UNITS TOP/	BOT/UNITS		CUTS/FT/ROUND			REMOVED
CHANGES							

FIELD ORDER NO WELL ID WELL NAME HOST WELL ID	092 <u>-</u> 2-48	60	ill date NST date NST depth	•	153 575	
LAST INSPECTION	ON INFORMA	TION	·	CURRENT INSPECTION		N O
WELL PAD	☐ YES		O   NO	WELL PAD	· □ YES	Die
BRASS BURVEY MARKER	☐ YES			BRASS SURVEY MARKER	☐ YES	0.16
MARKER STAMPED WITH SURVEY DAT				MARKER STAMPED WITH SURVEY DATA		: D No
MARKER STAMPED WITH WELL ID DAT		Ν		MARKER STAMPED WITH WELL 10 DIT	YES	: D. NO
WELL LABELED WITH WELL ID	O YES			WELL IABELEO WITH WELL ID	U YES	O NO :
WELL LABELED WITH WELL NAME	☐ YES	□.NC		WELL LABELED WITH WELL NAME	☐ YES	Ø NO
PROTECTIVE POSTS	O Yes	□ ,NC		PROTECTIVE POSTS	☐ YÉS	NO.
REMOVABLE POST IN PLACE	□ yes	. D NO		REHOVABLE POST IN PLACE	☐ YES	DNO
WELLLOCK	O Yes	□ NO		WELL LOCK	YES.	D/NO ·
WELL DAMAGED	YES	□ NO		WELL DAMAGED	YES .	O NO
WELL IS DIY	E) YES	ON C	□ ND*	WELL-IS DRY	VES :	<u> 0 но</u>
PARTED CISING	□ Yas	□ NO	O'ND*	PARTED CASING.	☐ YES	,U NO
BENTONITE IN WELL	YES	. D NO	□ ND+	BENTONITE IN WELL	O-YES.	<u> </u>
WELL SANDED IN	YES	ON D	· D ND*	WELL SANDED IN	U YES	<u>[], NO</u>
COLLAPSED CASING	YES	. □ NO	D ND*	COLLAPSED CASING :	_ Pres	סא ים
EQUIPMENT IN WELL	☐ YES	ON.	□ ND*	EGNIDWENT IN MEIT	. ☐ .Yes	D NO
DEBRIS IN WELL	☐ Yes	□ NO	□ ND*	DEBRUS IN WELL	YES .	□ NO
LAST PUMP IN			· ;	PUMP ACTIVITY PERFORMED.	MATION ☐ ÌNSTÀI	(ID)
PUMP ACTIVITY PERFORMED	<u> </u>	LLEO .	<b>-</b>		☐ REPLAC	
	☐ REPLA		.□ ND!		☐ REMOV	. 1
	REMO		. 🗇	PUMP TESTED .	T YES	ONO .
PUMP TESTED	YES	<u> </u>	. D. ND4	NEW PUMP	☐ YES	□ 'NO
YEVY PUMP	YES	<u>□ wo</u>	יקא ע	ACTIVITY PEFORMED BY		7
ACTIVITY PEFORMED BY	<u> </u>		7	DATE ACTIVITY PERFORMED	DE Go	too job
DATE ACTIVITY PERFORMED		<del></del>		PUMP TYPE	1/3/0	/
UMP TYPE			i		<del>\                                    </del>	
UMP MAKE	·			PUMP MAKE	<del></del>	
MMP MODEL		,		PUMP MODEL	$\overline{}$	<del> </del>
UMP INTAKE DEPTH (R)				PUMP INTAKE DEPTH (ft)	<u> </u>	
UBING STZE (In)			1	UBING SIZE (In)	<del></del>	
JBING MATERIAL		•	.	UBING MATERIAL		$\sum_{i=1}^{n}$
	<del> </del>	<del></del>	. ,, 1	UBING LENGTH (IT)	•	_ / _
JBING LENGTH (ft)	<del></del>	· <del>····</del>		UBING CONNECTION	,	
BING CONNECTION .	<del></del>			<u>,                                     </u>	<del></del> -	

	d order n L XD L name - Well ID	(0 <u>69</u>	14082 9-99-48	DRILL DATE CONST.DATE CONST.DEPTH	LAST INSPECTION  MORTHING  EASTING  ELEVATION	153050.6 525362.6
	<del>``</del>	MEA	SUREMENT INFORMATI	ION NO		· · ·
		· · ·	LAST	CURRENT		
A DE	TH TO WATE	ER(ft)		40		
	TH TO WATE			7/2/01	┵╣╎┞╼╼┙	
B D29	TIQE OT HT	OM(rt).	····	4.0		
OEF	TH TO BOTT	OM DATE		7/2/07		A .
Czir	K LJP(D3)				4111	
DREFE	RENCE MAR	K(fb)				
REPE	RENCE MARI	(IS TOC	TYES D NO D N	ID* YES INO.		
-		PERF	PRATION INFORMATIO	N		
CASIN		OP BO	TTOM CUTS/FT/ROUN	<u> </u>	▼ Hepth to Weter	
<del></del>		<del></del>		-		
CHÁNG	Al	T Farm	مرام دومر ال	Series in		
		t l. l		an 21 an in 1 an in 1 an in 1 an in 1 an in 1 an in 1 an in 1 an in 1 an in 1 an in 1 an in 1 an in 1 an in 1	Depth to Rottom of Well	
Cay S	he grade	CASI	The had Go	B. Day		C Bottom of Caving  FING  FOR OR GASINE  CANAD
SIZE	TOP_	CASI	ing enformation	O TYPE GONN	Derth C PTH TO WATER HAND TOP OF CAS PTH TO SOTTOM OF WELL ERON TO SASSE CHILDE OF CASH OF CASH	C Bottom of Caving  FING  FOR OR GASINE  CANAD
SIZE	TOP		ing enformation	0 107 0 707	Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth ( Depth	C Bottom of Caving  FING  FOR OR GASINE  CANAD
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MD+ - Not Dommented MIJ-22-231 (M/20/02)

A9092 699-97-48 A 909a 699-97-48 Depression in ground-wooden ladder Tying Tree Failer over

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											PAGE 369
WELL	NAME	٠	COORDINA		CASING ELEV	DRILL_DEPTH COMPL_DEPTH		PERF/S	CREEN		COMMENTS
		TYPE TYPE	l 83 NS/EW	PLANT NS/EW	WELL_DIAM DATE_COMPL	DEPTH_WATER	TYPE	DIAM	TOP	BOT	PREVIOUS WELL NAMES
					419.26	100.0	P	8.0	28.0	96.0	PIEZOMETERS INSTALLED 6/77
699-9			152858.31 574851.56	96384.90	8.0	100.0	_				100 06 40
		GW S	574851.56	-49215.00	10/62	40.0					199-96-49
				96388.00	419.63	50.0	P	1.5	30.0	50.0	REMOVED
699-9		AB		-49232.00	1.5						
		VD			12/65	37.0					. 155
				0.6200 00	419.29	100.0	P	1.5	79.0	89.0	60 SLOT SCREEN; INSTALLED 6/77
699-9	6-49E			96388.00	1.5	89.0	P	8.0	28.0	96.0	
		GW		-49232.00	10/62	38.0					
				05066 00	414.72	•					DUG WELL
699-9	6-52		152728.90	95966.00	12.0						
		GW	574147.54	-51526.60	12.0	30.0					
				95982.00	412.52						
699-9	6-521			-51568.00	1.5	36.0					
		GW		-91368.00	1.3	30.0					
					404 04	100.0	P	8.0	25.0	97.0	CEMENT PLUG AT 83 FT.
699-9	7-43		153090.52	97132.10	421.84 8.0	83.0	-				
		GW S	576672.03	-43240.80	10/62	43.0					199-97-43
		3			10	60.0	P	1.5	40.0	60.0	REMOVED
699-9	97-43	0		97143.00		60.0					
		AB		-43241.00	1.5 12/65	43.0					
					12/65	1011					REMOVED
		_		97143.00	422,10	90.0	P	1.5	70.0	90.0	KEMOVED
699-	97-43	P AB		-43241.00		89.0					
		AÞ			8/63	44.0				•	
				0.0775 00	413.00	26.0					DUG WELL
699-	97-47			96735.00 -47285.00		26.0					REF.2 NO.141
		GW		4,200,00							
					409.25	34.0					FILLED IN
699-	97-48	AB			60.0						14/26-13D1, N.RUN
										39.0	
699-	97-51	A	153122.37	97254.40	402.33	32.0		<b>8</b> O	12 0	39.0	
		GW	574468.39	. =	Ha	nford Wells	3				199-97-51A, 699-97-50 699-97-51, REF.2
		S			DNI	aann UC-90	03				
			< 20€.		M A Chai	nness & J.K	. Merz				FILLED AROUND 12" CORR. LINER
699-	97-5	l B	152981.72		IVI.A.OHAI	August 1993					
	J. J.	G₩	574436.89	1	n d for	us Dentof Eng	erav ui	nder			14/26-14D1, 699-97-51A
					Prepared for	DE-AC06-76RL	ວ 1830	)			
					Contract	DE-ACOS-TONES	orial l	nstitute			

Contract DE-AC06-76RLO 1830
Pacific NW Lab by Battelle Memorial Institute

Q HWIS again

**IWIS Interface - Survey Information - Horizontal** 

WELL ID	WFLL NAME	SURVEY CONTRACTOR	DATUM_TYPE	SURVEY_DATE	MEASUREMENT_METHOD	NORTHING	EASTING	SURVEY_UNITS		
A9092	000 07 40	L INSKNIONA MI	NAD83	01/01/1801	UNKNOWN	153040.6	575262.6	m	R	

	SURVEY DATA	A REPORT				uest No. -507	
iect No. Title: Well Decommissioning: A9092 674-97-48					File No. 6AT14R26		
Job No. 65400811.1225400	Prepared By Tim Johnson	Date 9/24/2007	!	Reviewer	A	<b>3</b> -	Page 1 of 1
CA10	DESCRIPTION OF WORK		DISTRIB	BUTION	SDR	PLOT	DWG
		acionina at coordinates	Survey F	ile	OR		
Stake or locate Well As	9092 in support of well decomming information for WAR Report.	Obtain ground	S.H. Wo	rley	1		
given. If found, obtain	o of staked location or well.		B.J. Hov	vard	1		
			E.C. Raf	iuse	1		
Horizontal Datum: Wo	CS83S/91 (Meters)		G.G. Ke	lty	1		
Vertical Datum: NAV	D88 (Meters) able GPS 5800 RTK		W.D. W	ebber	1		

### SURVEY RESULTS AND COMMENTS

Name	Northing	Easting	Ground Elevation	Description
A9092	153040.6	575262.6		No evidence of well found at coordinates given. Set hub & lath.

OTE: This Survey was performed under the supervision of a Licensed Professional Land Surveyor registered in the State of Washington.

	SCAN DATA R	EPORT				Request No.: 074-509	
Project No.:	Title: Well Decommissioning	: A9092 (Grou	nd Scan	699- 97-48	?	File No.: 600C-001	
	Prepared by:			Date:	Reviewer	::	Page
Job No.: 65400811.1225400 CA10	Tim Johnson			9/25/07	dity.	EUT.	1 of 1
DESCRIPTION OF WORK: Perform	rm ground scan (20' x20' Are	a) around stake	d	DISTRIBUTION	SDR	SKETCH	DWG
location of Well A9092 in atte	mpt to locate possible buried	casings.		Survey File	OR	OR	
				S.H. Worley	1		
•				B.J. Howard	1		
				E.C. Rafuse	1		
				G.G. Kelty	1		
				W.D. Webber	1		
	IGATION: 9/20/2007		<del></del>	<u> </u>		<u> </u>	<u></u>
DATE OF FIELD INVEST		Soil Condition	s: 🔲	Rocky S	andy	Wet	Dry
Weather: Temp 70°F  Cloudy Clear C	Wind 5 MPH  P. Cloudy Fog	Depth of Inves		8 feet			
Ground Penetrating  X Other (identify)  GPR Antenna(s) Used:  Documentation Provided: N  Limits of Investigation: 20':  EQUIPMENT LIMITATION  1. Objects made of concreted to the concreted to the concreted to the concreted to the concreted to the concreted to the concreted to the concreted to the concreted to the concreted to the concreted to the concreted to the concreted to the concrete to the concrete to the concrete to the concrete to the concrete to the concrete to the concrete to the concrete to the concrete to the concrete to the concrete to the concrete to the concrete to the concrete to the concrete to the concrete to the concrete to the concrete to the concrete to the concrete to the concrete to the concrete to the concrete to the concrete to the concrete to the concrete to the concrete to the concrete to the concrete to the concrete to the concrete to the concrete to the concrete to the concrete to the concrete to the concrete to the concrete to the concrete to the concrete to the concrete to the concrete to the concrete to the concrete to the concrete to the concrete to the concrete to the concrete to the concrete to the concrete to the concrete to the concrete to the concrete to the concrete to the concrete to the concrete to the concrete to the concrete to the concrete to the concrete to the concrete to the concrete to the concrete to the concrete to the concrete to the concrete to the concrete to the concrete to the concrete to the concrete to the concrete to the concrete to the concrete to the concrete to the concrete to the concrete to the concrete to the concrete to the concrete to the concrete to the concrete to the concrete to the concrete to the concrete to the concrete to the concrete to the concrete to the concrete to the concrete to the concrete to the concrete to the concrete to the concrete to the concrete to the concrete to the concrete to the concrete to the concrete to the concrete to the concrete to the concrete to the concrete to the concrete to the concrete to the concrete to the	Radar (GPR)  Magnetic Locator (Schonsted 1000 MHz one 1000 MHz one 20' area centered on staked 20's: te, clay pipe, PVC pipe, and for an existing structure; the 4 ture.  Lent is advised that subsurface concrete conditions, utility contractly located. Client assume the structure of confect.	position of well fiberglass pipe a saisting structure 400 MHz is with a location scanning structure and other such risk. It is a controls during the controls during the controls during the controls during the controls during the controls during the controls during the controls during the controls during the controls during the controls during the controls during the controls during the controls during the controls during the controls during the controls during the controls during the controls during the controls during the controls during the controls during the controls during the controls during the controls during the controls during the controls during the controls during the controls during the controls during the controls during the controls during the controls during the controls during the controls during the controls during the controls during the controls during the controls during the controls during the controls during the controls during the controls during the controls during the controls during the controls during the controls during the controls during the controls during the controls during the controls during the controls during the controls during the controls during the controls during the controls during the controls during the controls during the controls during the controls during the controls during the controls during the controls during the controls during the controls during the controls during the controls during the controls during the controls during the controls during the controls during the controls during the controls during the controls during the controls during the control during the control during the control during the control during the control during the control during the control during the control during the control during the control during the control during the control during the control during the control during the control during the control during the control during the control during the control during the control during the control during the control during the	MHz  hare gene es: the hin 1 ft. ing is n her fact s critical	of an existing structure of 100% accurate. Cors beyond Contract that Client delegal vation cutting or dri	c.  n 6 in. of cture; and client is letter contracted to responsibling actions.	an existing so the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the	d that e subsurface
injury or property damage. (	Contractor shall not be liable	for any injuries	or dam	ages arising from o	or caused	by subsurfac	ce objects.
ote: No evidence of well	casing detected in scan area.						
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FIELD ORDER NO WELL ID WELL NAME HOST WELL ID	0-43	DRILL DATE CONST DATE CONST DEPTH	LAST INSPECT HORTHING BASTING BLEVATION	576634
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MD* - Not Desimented BH1-EE-231 (M/20/02) €4-001-669 6606A

A9099 699-100-43

Pesible old dug out well

	_	COORDINA	2ሜጥ	CASING ELEV	DRILL_DEPTH	PI	ERF/SC	REEN		COMMENTS
	TYPE	L 83 NS/EW	PLANT NS/EW	WELL DIAM DATE COMPL	COMPL DEPTH DEPTH WATER	TYPE D	MA)	TOP	BOT	PREVIOUS WELL NAMES
699-97-52					37.0					FILLED IN
	AB			5/43						RANNEY TH#9
699-98-49	Δ	153310.44	97868.50	401.80	40.0					DUG WELL BACK FILLED
0,5,5,0,10	AB	574823.65	-49303.60	10.0	26.0 20.0					14/26-14A1, 199-98-49A 699-98-49
699-98-49	B AB									FILLED IN
699-98-54	A UN									14/26~15A1
				412.00	40.0					NOT LOCATED
699-98-54	B UN			36.0						14/26-10R1
										NOT LOCATED
699-98-54	UN									14/26-10Q1
					39.0					DUG WELL
699-99-42	gw GW		98944.00 -41606.00		36.0 37.0					14/27-7N1, REF.2
 	В									FILLED IN
699-100-4				405.00 36.0	40.0	-				14/26-12J1, REF.2
	AB							<u> </u>		FILLED IN
699-100-				Hant	ford Wells					14/26-11M1
	AB			PNL-88	00 UC-903					SCREEN 42.5-47
699-101-	48A			M.A.Chamn Aı	iess & J.K. N ugust 1993	NEI Z		. 5	47.0	
	G₩			Prepared for U.	<ol><li>Dept of Energ</li></ol>	y under				HR-6
699-101-	48B		Da	Contract DE	-AC06-76RLO Battelle Memor	ial Institu	te	.0	47.0	SCREEN 43-47
	GW S		Га	CITIC 1444 EDD D						HR-7
699-101-	48C	<b>√∠34</b> ,	101476.00		77.0 55.0	P	6.0	43.0	47.0	SCREEN 43-47
000 202	GW		-47985.0	0 6.0 5/43	35.0					699-101- <b>48</b> D, HR-5

'age 1 of 1

Query HWIS again

### **IWIS Interface - Survey Information - Horizontal**

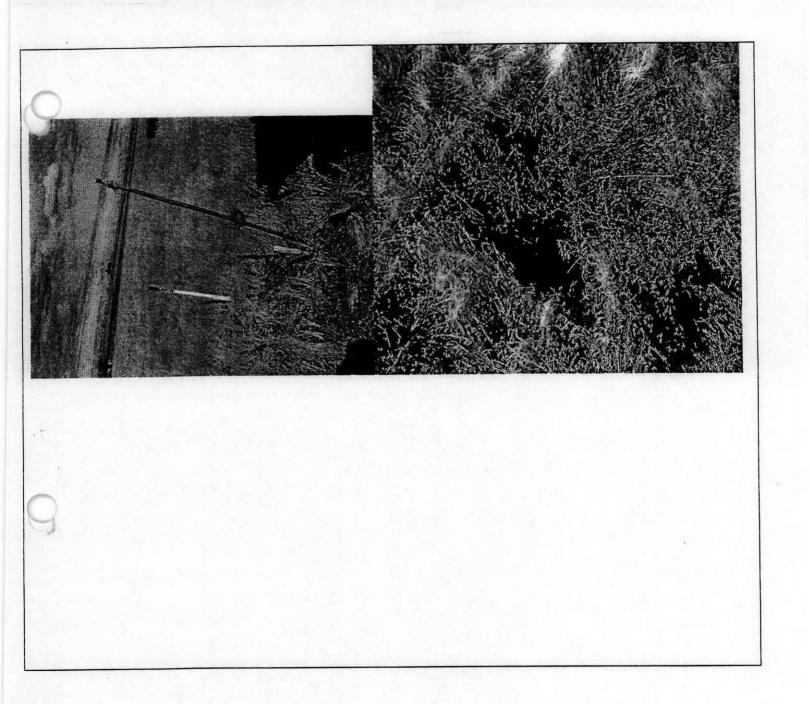
WELL_ID	WELL_NAME	SURVEY_CONTRACTOR	DATUM_TYPE	SURVEY_DATE	MEASUREMENT_METHOD	NORTHING	EASTING	SURVEY_UNITS	QUALIFIER	СС
A9099	699-100-43	BHI		01/01/1801	ESTIMATED	153933	576634	m	Р	O CONTRACTOR OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY O

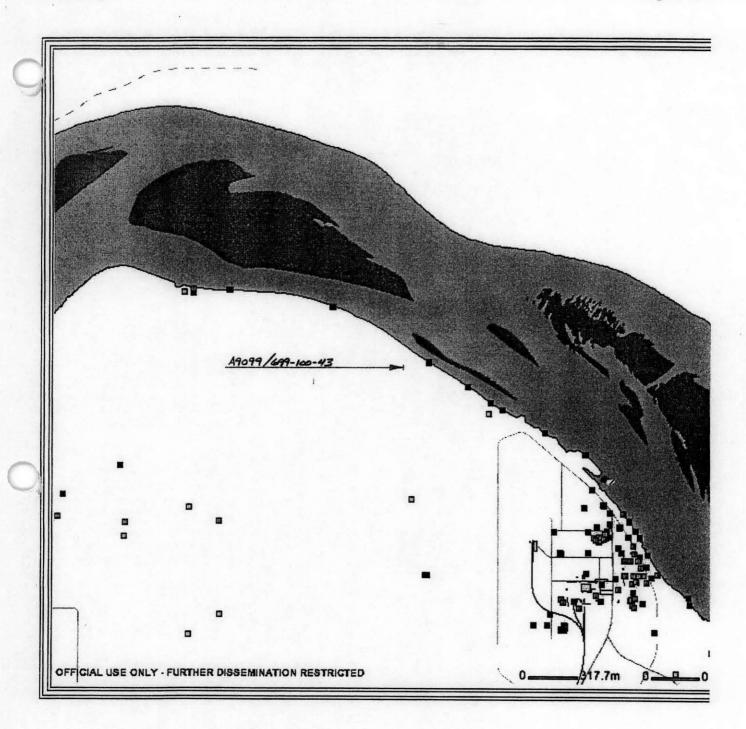
	SURVEY DATA	A REPORT		"	l l	quest No. I-500	
r ct No.		e No. T14R26					
Job No. 65400811.1225400 CA10	Prepared By Tim Johnson	Date 9/18/2007	1	Reviewer	He	.kg	Page 1 of 2
	DESCRIPTION OF WORK		DISTR	IBUTION	SDR	PLOT	DWG
Stake or locate Well A	9099 / 699-100-43 in support of v	well decommissioning	Survey	File	OR		
If found, obtain inform	ation for WAR Report. Obtain gr	round elevation and	S.H. W	orley	1		
take photo of staked po			B.J. Ho	ward	1		
			E.C. Ra	afuse	1	!	
Horizontal Datum: Wo			G.G. K	elty	1		
Vertical Datum: NAV Equipment Used: Trin	nble GPS 5800 RTK		W.D. V	Webber	1		
				· · · · · · · · · · · · · · · · · · ·			

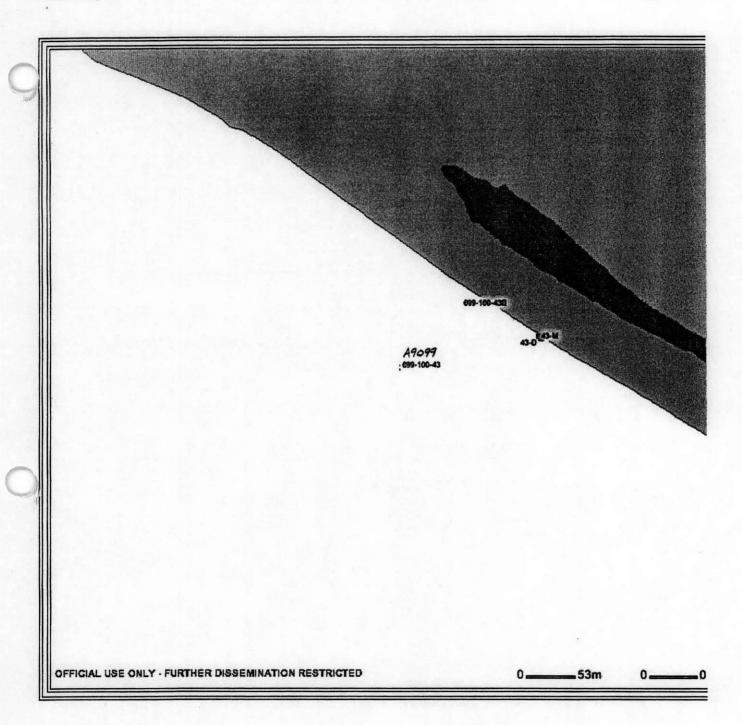
### SURVEY RESULTS AND COMMENTS

Name	Northing	Easting	Elevation	Feature Code	Description
A9099	153933	576634	124.51		Coordinates Given
A9099	153933.00	576634.00	124.94	New Location	Set hub and lath
A9099	153931.45	576632.84	125.02	Previous Location	Observed old stake
DEPRESSION	153786.31	576681.50	127.34	WELI	Shot around top
PRESSION	153784.52	576680.88	127.28	WELI	Shot around top
RESSION	153785.30	576679.29	127.36	WELI	. Shot around top
RESSION	153785.66	576680.46	126.73	WELI	Shot at bottom

NOTE: This Survey was performed under the supervision of a Licensed Professional Land Surveyor registered in the State of Washington.







						VB	
	SCAN DATA I	REPORT		]	DO"	Request No.: 074-508	
Project No.:	Title: Well Decommissioning	g: A9099 (G1	ound Scar	1,99,1		File No. : 600C-001	
Job No.: 65400811.1225400 CA10	Prepared by: Tim Johnson			Date: 9/25/07	Reviewe		Page 1 of 1
DESCRIPTION OF WORK: Perform				DISTRIBUTION	SDR	SKETCH	DWG
location of Well A9099 and department of the location of Well A9099 and department of the location of Well A9099 and department of the location of Well A9099 and department of the location of Well A9099 and department of the location of Well A9099 and department of the location of Well A9099 and department of the location of Well A9099 and department of the location of Well A9099 and department of the location of Well A9099 and department of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of the location of	ression in attempt to locate	e possible bur	lea	Survey File	OR	OR	
				S.H. Worley	1		
				B.J. Howard	1		
				E.C. Rafuse	1		
				G.G. Kelty	1		
				W.D. Webber	1		
DATE OF FIELD INVESTIG	ATION: 9/20/2007						
Weather: Temp 70°F	Wind 5 MPH	Soil Conditio	ns:	Rocky Sa	ndy	Wet 🔀	Dry
Cloudy Clear	P. Cloudy Fog	Depth of Inve	stigation	8 feet			
ipment Used:  50/60 Hz detector (for Radio Frequency Elector Ground Penetrating Ratio X Other (identify) Ma	romagnetics (RF)	t)	-	l Functional Checks Completed	3		
GPR Antenna(s) Used:	1000 MHz	500	MHz	400 M	Hz	300	MHz
Documentation Provided: None	1						
Limits of Investigation: 20' x 20	)' area centered on staked p	osition of we	ll and area	of depression.			
EQUIPMENT LIMITATION	S:						
1. Objects made of concrete, of	lay pipe, PVC pipe, and fit	berglass pipe	are genera	lly not detectable.			
2. The transducers have a hori 500 MHz is within 1 ft. of a 3 ft. of an existing structure	n existing structure; the 40	isting structur 0 MHz is wit	es: the 10 hin 1 ft. of	000 MHz is within ( f an existing structu	in. of an	existing structure 300 MHz i	octure; the
Discussion of Findings: Client is equipment limitations, soil /cond objects to be missed or incorrect employees, staff and management ury or property damage. Cont	crete conditions, utility cong ly located. Client assumes at for application of safety of	gestion and ot such risk. It is controls durin	her factors s critical ti g excavati	s beyond Contracto hat Client delegate ion,cutting or drilli	r control responsib ng activiti	may cause su ility to its les to prevent	ibsurface t physical
ર∗ા ૌte: No evidence of well casi	ng detected in scan area.						

Sur	burvey		SURVEY REQUEST		Request No.			
Scan					0 7 4 - 0 5 0 0			
Project	No.	Title			File No.			
		Well Decommissioning	g: A9099 / 699-100-43		6 A T 1 4 R 2 6			
، No. تار ا		Requested By		Phone	Date Required			
65400811.1225400 CA10   Scott Worley			·	376-5660 / 851-825	0 ASAP			
!		Organization	1	Phone Location				
Ed Rafuse FH				373-5941 / 539-385	9 MO-413 / 107 / 200E			
REFERENCE DOCUMENTS Email / Well Location Map from QMap				GRID SYSTEM				
Email /	well Location Map	тот Омар			Survey File			
				Area	S.H. Worley 1 B.J. Howard 1			
				Geographic	E.C. Rafuse			
LOCATION OF WORK NW of 100H / 600A				WORK CONDITIO				
NW of I	100H / 600A			☐ SWP	W.D. Webber			
				☐ Mask ☐ Operator				
	<u>.                                    </u>			Exclusion Entry				
			SPECIAL INSTR					
Horizontal Coordinate System: WCS83S/91 (Meters) Vertical Datum: NAVD88 (Meters)								
No off road driving due to extreme fire danger.								
	DALE GOSTOVEH (SCP) 554-6584							
ITEM			··· · · · · · · · · · · · · · · · · ·	ON OF WORK				
1.	Stake or locate Well A9099 / 699-100-43 in support of well decommissioning. If found, obtain information for WAR report.							
	Obtain ground elevation and take photo of staked position. List equipment used on Survey Data Report.							
	Obtain coordinate and ground elevation of center of depression area ~300' SE of Well A9099 coordinate location. Ed Rafuse will show							
	you location. It may be a possible old dug well. Record description: Dia. & Depth of depression.							
	45E SHOBUSTEDT METAL DETECTOR AT BOTH LOCATIONS TO SEARCH FOR CLISING,							
3.	Report both on same Survey Data Report. (If Well A9099 not found make copy for Scan Request)							
		_						
			-					
Prepared	Bv		Date	Reviewed	9,,			
N.P. Fast			9/14/07	Reviewed	ву			
NOTES/COMMENTS								
Lead Surveyor/Crew								
Ł								
Date: Signature:					•			

699-S6-E4CP A9788

<b>-</b>	WELL ATTRIBUTE	ES REPORT	6 meter	
FIELD ORDER NO WELL ID WELL NAME HOST WELL ID	DRILL DATE CONST DATE CONST DEPTH	LAST INSPECT NORTHING EASTING ELEVATION	rion de Com	
LAST INSPECTION	ON INFORMATION	CURRENT INSPECTION INFORMATION		
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WELL LABELED WITH WELL ID		WAREL LABOURD WITH LABOUR	T VO	
WELL LABELED WITH WELL NAME	YES NO NO*	MAIEL LABELED METALLIES	YES NO	
PROTECTIVE POSTS	YES NO NO*		YES NO	
REMOVABLE POST IN PLACE	YES UNO NO*	<u> </u>	YES NO	
WELL LOCK	YES NO ND*	REMOVABLE POST IN PLACE	YES NO	
WELL DAMAGED	YES NO NO*	WELL LOCK UNABLE TO	YES NO	
WELL IS DRY	YES NO NO*	WELL DAMAGED	YES NO	
PARTED CASING	YES NO NO*	WELL IS DRY	YES NO	
BENTONITE IN WELL	YES NO NO*	PARTED CASING	☐ YES ☐ NO	
	YES NO NO+	BENTONITE IN WELL	YES NO	
VELL SANDED IN	YES NO NO*	WELL SANDED IN	YES .NO	
DLLAPSED CASING	YES NO NO*	COLLAPSED CASING	☐ YES ☐ NO	
EQUIPMENT IN WELL	YES NO NO*	EQUIPMENT IN WELL	YES NO	
DEBRIS IN WELL	☐ YES ☐ NO ☐ ND*	DEBRIS IN WELL	☐ YES ☐ NO	
LAST PUMP INF	ORMATION	CURRENT PUMP INFO		
PUMP ACTIVITY PERFORMED	☐ INSTALLED	PUMP ACTIVITY PERFORMED	☐ INSTALLED	
	REPLACED ND*		REPLACED	
PUMP TESTED	REMOVED		REMOVED	
NEW PUMP		PUMP TESTED	☐ YES ☐ NO	
ACTIVITY PEFORMED BY	140 - 1	NEW PUMP	YES NO	
		ACTIVITY PEFORMED BY		
DATE ACTIVITY PERFORMED		DATE ACTIVITY PERFORMED		
UMP TYPE		PUMP TYPE		
PUMP MAKE	ļ	PUMP MAKE		
UMP MODEL	F	PUMP MODEL		
JMP INTAKE DEPTH (ft)	ip	UMP INTAKE DEPTH (ft)		
JEING SIZE (In)		UBING SIZE (in)		
JBING MATERIAL		UBING MATERIAL		
BING LENGTH (ft)				
BING CONNECTION		JBING LENGTH (ft)		
		IRING CONNECTION		

WELL :		)		DRILL DATE CONST DATE CONST DEPTH		Last inspection northing easting elevation		
<u> </u>		MEAS	UREMENT INFORMATION	<u> </u>				<del></del>
<del></del>		1	LAST	CURRENT				
AIDEPT	H TO WATE	R(ft)						
DEPT	H TO WATE	R DATE	· · · · · · · · · · · · · · · · · · ·					
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1-1	н то вотто			<del>                                     </del>	-			
CSTICK					-		A	
	RENCE MARI	(( <del>ft</del> )			-	•		
	RENCE MARI	(TC TO C -	7		-	,	E	}
			J YES D NO D ND*	YES NO	-			
		PERFO	RATION INFORMATION					
CASING	SIZE	OP BO	TOM CUTS/FT/ROUND	•		The state of the state of the		
						Depth to Water	_	•
<u></u>	. <u></u>					•	-	
CHÁNGE	:s						1	
						Depth to Bottom of W	eIl	
<del></del>		·					to Battorn	of Casing
, s ⁱ						O WATER FROM TOP OF ( D BOTTOM OF WELL FRO		-mio
		CAS	ING INFORMATION		C TOP OF C	ASING TO GROUND SUR ASING TO SURVEY REFE	FACE/PAD	·
SIZE	TOP	воттом	MATERIAL	TYPE	CONNECT	ON THICKNESS		
· · · · · · · · · · · · · · · · · · ·	ļ	ļ						
	<u> </u>	<u> </u>				<u> </u>		
CHANGES	i						,	
<del></del>								
							· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·
· · · · · · · · · · · · · · · · · · ·		SCRE	EN INFORMATION				•	<del></del> -
SIZE	TOP	воттом	MATERIAL	TYT	)E	SLOT SIZE	<del>_</del>	•
						3601 5122	7	
		<u> </u>						ii
HANGES								₹
				,, <u>, , , , , , , , , , , , , , , , , ,</u>		·		<del></del>
<del></del>								<del></del>
					<del></del>			

FIELD ( WELL II WELL N HOST W	IAME	WMO-I A9154 699-86	-E4C	DRILL DATE CONST DATE CONST DEPTH	5/31/1953 7/1/1996 239	<del></del>	LAST INSPECTION NORTHING EASTING ELEVATION	7/15/2003
		MEASU	REMENT INFORMATIO	ON		7—	To T	<del></del>
A DEPTH	TO WATER(IT	)		CORRENT	1997 T	┪ [-	C C	
	TO WATER D	·		6.7.66				
BIDEPTH	TO BOTTOM(	ft)		10/1/0	27/			
DEPTH	то воттом	DATE		12/1/2				
C STICK (	JP(ft)	2.5		10/110	S & 1			A .
DREFERE	NCE MARK(IT	5	· · · · · · · · · · · · · · · · · · ·	2.50	<b></b>			
REFERE	NCE MARK IS	тос 🖂	YES D NO 2 N	n				B
<u> </u>			12 2 10 2 10		<b>40</b>			-
CASING :	SIZE TOP		IATION INFORMATION  FOM CUTS/FT/ROUN			<b>▼</b> De	pth to Weter	
HANGES	Hg with a	0 ***	ylar spa	as. Pisz	_   🖿		to Bottom of W	h to Bottom of Casing
					B DEPTI	H TO SOT	TOM OF WELL PROPERTY.	M TOP OF CASING
		CASI	NG INFORMATION		D TOP	F CASING	TO SURVEY REFE	RENCE MARKER
SIZE	TOP	BOTTOM	MATERIAL	TYPE	CONNE	CTION	THICKNESS	
4 13/4	11	<del></del>	- 4/.5					
CHANGES			,					
		SCRE	en information					
SIZE	TOP I	BOTTOM	MATERIAL		TYPE		SLOT SIZE	
CHANGES								
ID* - Not Doc IHI-EE-231 (02	A 9 7 umentada 97 2/20/02) A 9 1	88 189 190	CP Q R S	CFD DV DV				29/2003
	Ba	831	5 . ア	A. CFD	d Dec	d serv	*1	

WELL I	NAME	WMO-N A9154 699-S6-	R-2003-4-090 E4C	DRILL DATE	5/31/1953 7/1/1996	LAST INSPECTION NORTHING EASTING	7/15/200
HOST (	MELL ID	** ***********************************		CONST DEPTH	239	ELEVATION	
	/						
	METER	· •					
PIEZOM	IETER INFO	RMATION					
THE PIE	ZOMETER IS	PRES	ENT WISSING	CH/	ANGES		
		- LABE	ED NOT LABELE	<b>.</b>	<del>-</del>		
PERFOR	LATION INF	ORMATION					
CASING	SIZE T	OP BOTT	OM CUTS/FT/ROUND				
CASING	INFORMAT	TON					
SIZE	TOP	BOTTOM	MATERIAL	TYPE	CONNECTIO	N THICKNESS	٦
2"	<u> </u>						1
SCREEN	INFORMAT	TON					J
SIZE	TOP	BOTTOM	MATERIAL		TYPE	SLOT SIZE	7
						3001 SEE	1
-							J
PIEZON	METÉR Q	•					
PIEZOME	ETER INFOR	MOTTAM					
THE PIEZO	OMETER IS	PRESE	NT D MISSING	T (14)	NGES		
				<del></del>			
		LABELE	D NOT LABELED	]			<del></del>
PERFORA	TION INFO	RMATION					
CASING	SIZE TO	P BOTTO	M CUTS/FT/ROUND		·		
						······································	
Casing I	INFORMATI	ON					
SIZE	TOP	BOTTOM	MATERIAL	TYPE	CONNECTION	THICKNESS	•
SCREEN I	NFORMATI	ON					
SIZE	TOP	BOTTOM	MATERIAL		TVDE		
			FINI ERAPU.		TYPE	SLOT SIZE	
	<del></del>	4					×.

ND* - Not Documented BHI-EE-231 (02/20/02)

1

WHO-NR-2003-4-090 WELL ID WELL NAME HOST WELL ID WMO-NR-2003-4-090 A9154 G99-S6-E4C			DRILL DATE CONST DATE CONST DEPTH	5/31/1953 7/1/1996 239	LAST INSPECTION NORTHING EASTING ELEVATION	7/15/200	
	IETER S	<del>-</del>					
PIEZOME	TER INFO	RMATION					
THE PIEZO	METER IS	PRES	ENT MISSING	CH	<b>UNGES</b>		
		[ABE	LED 🔲 NOT LABELLE	<u></u>			
PERFORA	TION INFO	DRMATION					
CASING !	SIZE TO	P BOTT	OM CUTS/FT/ROUN	D		<u></u>	
CASING I	NFORMAT	ION					
SIZE	TOP	BOTTOM	MATERIAL	TYPE	CONNECTI	ON THICKNESS	
L&	<u> </u>	1	35				
SCREEN I	NFORMAT:	ton .	•				
SIZE	TOP	BOTTOM	MATERIAL		TYPE	SLOT SIZE	
<u> </u>	L	<u> </u>					
PIEZOMET THE PIEZON	ER INFOR	=	NT	] ou	NGES		
L <u></u>		L MELL					
	L	4 COCC	D MOI DABELEL				
PERFORAT	ION INFO	RMATION		<u></u>			
CASING S	ZE TO	POTTO	CUTS/FT/ROUND				
CASING IN	FORMATI	DN		<u> </u>			
SIZE	TOP	BOTTOM	MATERIAL	TYPE	CONNECTIO	N THICKNESS	
2.11			55				
SCREEN IN	FORMATIO	ON					
SIZE	TOP	BOTTOM	MATERIAL		TYPE	SLOT SIZE	
					<del></del>		

ND* - Not Documented BHI-EE-231 (02/20/02)



FIELD ORDER NO

## **NON-ROUTINE WELL MAINTENANCE ORDER**

FIELD ORDER NO WELL ID WELL NAME CONTRACT NO	WMO-NR-2003-4-090 A9154 699-S6-E4C 0000X-SC-G0096-FH	SCHEDULED BEGIN/END DATE PURGE WATER CONTAINMENT REGULATED TRUCK REQUIRED HPT/RPT COVERAGE	7/30/200 - 8/20/2003 CONTAIN
GENERAL INSTRUCT WORK SEQUENCE TO E SPECIAL INSTRUCTS	EALTH AND SAFTEY PLAN PER TONS E DETERMINED BY THE PERFONS I not appropriate. Provide as n	C CERCLA V	Chg maintenance to: ACN 118356 COA FA20  Naste: CACN 117534 COA FA20
200.8	Replace well lock.	-	
TASK WAS COMPLETED CANCELED	Comment		
DATE WORK COMPLETED/CANC	ELED		
INITIALS			
400.1	Remove pump and tub	ping, test pump for function before removing.	
TASK WAS  COMPLETED  CANCELED	Comment		
DATE WORK COMPLETED/CANCE	LED		
TATTALS			



# NON-ROUTINE WELL MAINTENANCE ORDER

WELL ID WELL NAME CONTRACT NO	A9154		1	CHEDULED BEGIN/END DATE FURGE WATER CONTAINMENT REGULATED TRUCK REQUIRED RPT/RPT COVERAGE	7/30/200 - 8/20/2003 CONTAIN
500.2		Remove pump and to	ubing from well,	test pump for function before remov	ring.
TASK WAS  COMPLETE CANCELED	D	Comment			
DATE WORK COMPLETED/CANC	CELED				
INITIALS					
900.1		Tag depth to bottom o	of well and depti	to water.	
TASK WAS COMPLETED CANCELED		Comment			
DATE WORK COMPLETED/CANS	ELED 3				
INITIALS					
Subcontractor Authorized	Signature		Print Name	S.H. WORLEY	10-2-3 Date
Auto Ler	Zed Signa	Ragne	JAUTE Print Name	N FOR EO RAFUSE	10/3/03

7/29/2003

field order no Well ID	WMO-NR-20 A9154	03-4	-090		DRILL DATE		5/31/1953	LAST INSPECT	TON 7/15/2	003
WELL NAME HOST WELL ID	699-S6-E4C				CO	NST DATE	7/1/1996	northing Easting Elevation	<del></del>	
U	ST INSPECTIO	NI IN	FORMA	TION	-		CIRE	ENT INSPECTION		
WELL PAD			₹ YES	5 1	□ NC	D ND¹	MARCI I DAD	LITT INSPECTION		<u> </u>
BRASS SURVEY MARKE	R		YES		No		PDACC CURVEY MA	RKED	YES	N
MARKER STAMPED WIT	H SURVEY DATA		☐ YES		<u> </u>	<del></del>	MARKED CTAMOED	WITH SURVEY DATA	L YES	<u>N</u>
MARKER STAMPED WIT	H WELL ID DATA		YES				MARKET CEALAND		⊥ YES	N
WELL LABELED WITH W	ÆLL ID	<del></del>	<u> </u>				MEL LARELED ME		YES	
WELL LABELED WITH W	ELL NAME	+							YES	
PROTECTIVE POSTS	<del></del>	+			NO	ND*	MOTE		VES YES	
REMOVABLE POST IN PL	ACE	<del>†                                     </del>	Z YES		<u> </u>	ND*	·		₩ YES	
WELL LOCK		+	Z YES		J NO	□ ND*	REMOVABLE POST I	N PLACE	W YES	
WELL DAMAGED			YES	— <del>-</del>	<u> NO</u>	□ ND*	WELL LOCK		VES YES	
WELL IS DRY		<u> </u>	YES	<u> </u>	NO	□ ND*	WELL DAMAGED		YES	ZN
PARTED CASING			YES		NO	✓ ND*	WELL IS DRY		YES	
SENTONITE IN WELL			YES		NO	₩ ND*	PARTED CASING		☐ YES	
			YES		NO	₩D*	BENTONITE IN WELL		□ YES	
WELL SANDED IN			YES	_ [	NO	₩ ND*	WELL SANDED IN		☐ YES	
OLLAPSED CASING		_ [	YES		NO	₩ ND*	COLLAPSED CASING			
QUIPMENT IN WELL			YES		NO	₩ ND*	EQUIPMENT IN WELL		☐ YES	_ <u> </u>
DEBRIS IN WELL			YES		NO	₩ ND*	DEBRIS IN WELL		☐ YES	
URFACE EROSION			MAJO	R 🗆	NON		SURFACE EROSION			
			MINO	R 🗹		-				<b>W</b> NO
	AST PUMP INF	ORM	ATION				CUR	RENT PUMP INFO	::uvor	<u> </u>
UMP ACTIVITY PERFORM	1ED		INST	ALLED	)		PUMP ACTIVITY PERF		_ INSTAI	U.FD
			REPL	ACED		✓ ND*			REPLA	
UMP TESTED			REMO	VED					REMON	
EW PUMP			YES		NO	₩ ND*	PUMP TESTED		☐ YES	
			YES		NO	MD*	NEW PUMP		YES	
TIVITY PEFORMED BY		Walk		_			ACTIVITY PEFORMED	BY		<del></del>
ATE ACTIVITY PERFORM	ED 7,	/15/20	003				DATE ACTIVITY PERF	ORMED	DF GEST	000
IMP TYPE	PC	OSITI	VE DISP	ZACE	MENT		PUMP TYPE		0/1/0	ک
IMP MAKE	H	YDRO	STAR				PUMP MAKE		/ NO G	UMP
MP MODEL	2	ea 2"	piezow/	/ hydr	ostars		PUMP MODEL		<del>-\</del>	<del>-</del>
MP INTAKE DEPTH (ft)		·	<del></del>				PUMP INTAKE DEPTH	( <u>0</u> )		
BING SIZE (In)	2			<del>-</del>	<del></del>		TUBING SIZE (In)			
BING MATERIAL	ST	AINL	SS STE	EL .			TUBING MATERIAL			
BING LENGTH (R)	<del></del>									7
BING CONNECTION	NO	)*					TUBING LENGTH (ft)			_/
						li i	TUBING CONNECTION	[ "		

	SURVEY DATA REPORT								
oject No. A	oject No.  A Well Decommissioning A9788								<u>-</u>
Job No. 65400811.122540		ared By Johnson	-	Date 5/30/2007	,	Reviewer	Hor	bo	Page
·		RIPTION OF WORK			DISTR	IBUTION	SDR	PLOT	1 of 2 DWG
Survey well location	on for A9788.	If found, fill out WAR	Report. If not	found,	Survey	File	OR		
set hub and lath. Toordinate System	ake photo.				B. Howard C. Wright G. Kelty		1		
Zone:	Washington						1	<u>-</u>	
Project Datum:	NAD 1983 (	Conus)					1		<del></del>
Vertical Datum: Geoid Model:	NAVD 1988 Geoid03			f	E. Rafu	se	1		
Units:	Meters			1				1	

SURVEY RESULTS AND COMMENTS

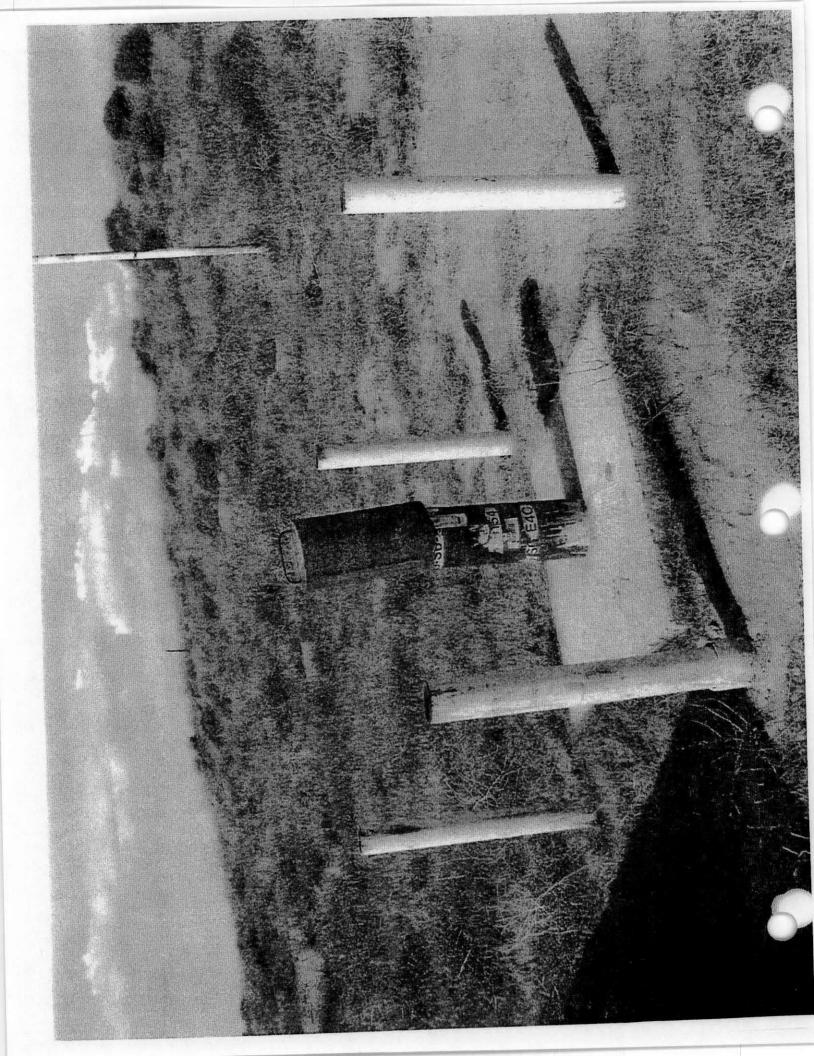
Well ID# A9788 was found at the listed coordinates: N121668.32 E591055.38

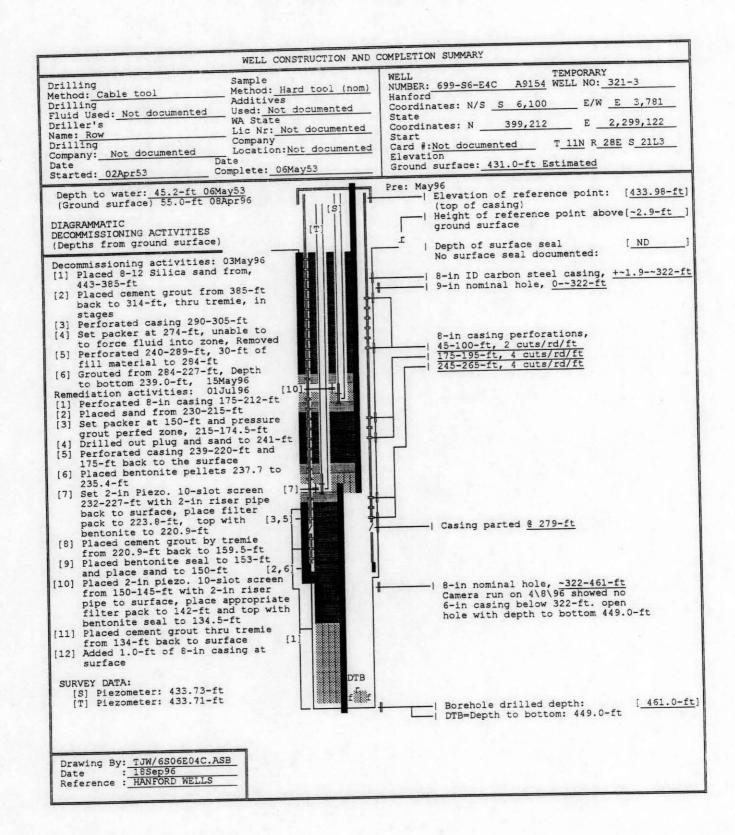
Note: A9154 is the host well for A9788.

Completed WAR report.

Equipment Used: Trimble 5800 GPS Receiver, RTK

e Photo





SUMMARY OF CONSTRUCTION DATA AND FIELD OBSERVATIONS RESOURCE PROTECTION WELL - 699-S6-E4C

WELL DESIGNATION RCRA FACILITY 699-S6-E4C

Not applicable
Not applicable
S 6,100 E 3,781 [HANFORD WELLS]
N 399,212 E 2,299,122 [HANCONV] CERCLA UNIT

HANFORD COORDINATES : LAMBERT COORDINATES :

May53 DATE DRILLED DEPTH DRILLED (GS)

MEASURED DEPTH (GS) : DEPTH TO WATER (GS) : CASING DIAMETER

461-ft
Not documented
45.2-ft, 06May53, 55.0-ft, 08Apr96
8-in, carbon steel, +2.9-322-ft;
6-in, carbon steel, ~320-461-ft
2-in, stainless steel Piezometer, +2.63-232-ft "T", 10-slot screen 5-ft long
2-in, stainless steel Piezometer, +2.65-150-ft "S", 10-slot screen 5-ft long
433.98-ft, [HANFORD WELLS]
433.73-ft, "S" piezometer
433.71-ft, "T" piezometer
431.0-ft, Estimated
45-265-ft

ELEV TOP OF CASING :

ELEV GROUND SURFACE : PERFORATED INTERVAL : SCREENED INTERVAL :

45-265-ft

10-slot screen 145-150-ft, 10-slot screen 227-232-ft FIELD INSPECTION: Post, pad, and identification installed 11/05/96 COMMENTS

OTHER: Borehole lower portion decommissioned, 03May96

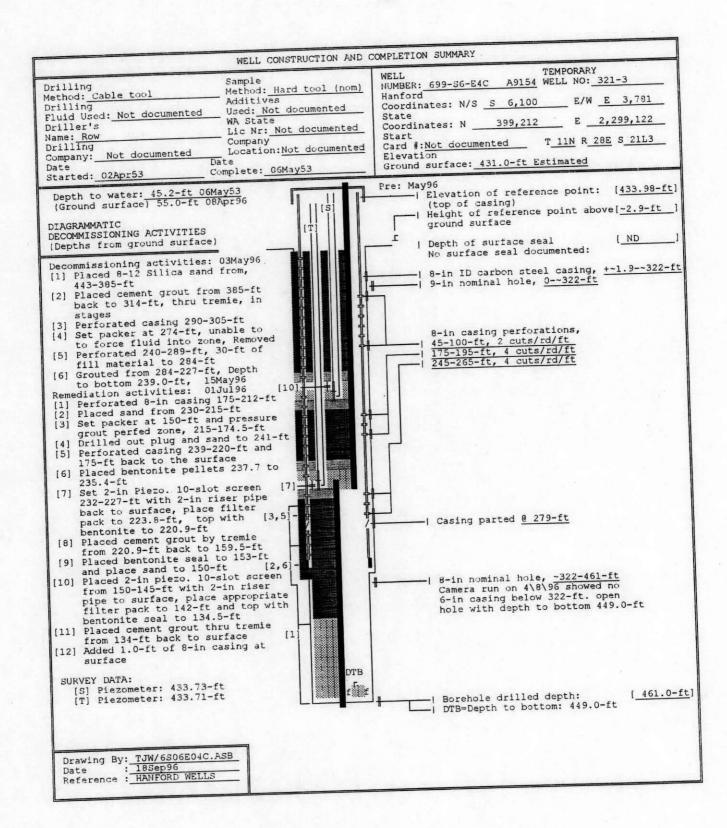
Two 2-in Piezometers installed, 01Jul96

Driller AVAILABLE LOGS

Not applicable TV SCAN COMMENTS Not applicable DATE EVALUATED Not applicable No water level data; EVAL RECOMMENDATION : LISTED USE

PNL sitewide characterization CURRENT USER

None documented PUMP TYPE Borehole remediated MAINTENANCE REMEDIATIONS



## SUMMARY OF CONSTRUCTION DATA AND FIELD OBSERVATIONS RESOURCE PROTECTION WELL - 699-S6-E4C

699-S6-E4C WELL DESIGNATION Not applicable RCRA FACILITY

CERCLA UNIT

Not applicable S 6,100 E 3,781 [HANFORD WELLS] N 399,212 E 2,299,122 [HANCONV]

HANFORD COORDINATES:
LAMBERT COORDINATES:
DATE DRILLED
DEPTH DRILLED (GS): May53 461-ft

Not documented

MEASURED DEPTH (GS) : DEPTH TO WATER (GS) : CASING DIAMETER

Not documented
45.2-ft, 06May53, 55.0-ft, 08Apr96
8-in, carbon steel, +2.9-322-ft;
6-in, carbon steel, -320-461-ft
2-in, stainless steel Piezometer, +2.63-232-ft "T", 10-slot screen 5-ft long
2-in, stainless steel Piezometer, +2.65-150-ft "S", 10-slot screen 5-ft long
433.98-ft, "S" piezometer
433.73-ft, "S" piezometer
433.71-ft, "T" piezometer
431.0-ft, Estimated
45-265-ft
10-slot screen 145-150-ft. 10-slot screen 227-232-ft

ELEV TOP OF CASING :

ELEV GROUND SURFACE :

PERFORATED INTERVAL :

SCREENED INTERVAL

10-slot screen 145-150-ft, 10-slot screen 227-232-ft FIELD INSPECTION: Post, pad, and identification installed 11/05/96 COMMENTS

OTHER: Borehole lower portion decommissioned, 03May96 Two 2-in Piezometers installed, 01Jul96

AVAILABLE LOGS Driller

Not applicable TV SCAN COMMENTS DATE EVALUATED : EVAL RECOMMENDATION : LISTED USE : Not applicable Not applicable No water level data;

CURRENT USER PNL sitewide characterization

PUMP TYPE None documented MAINTENANCE Borehole remediated

REMEDIATIONS

Query HWIS again

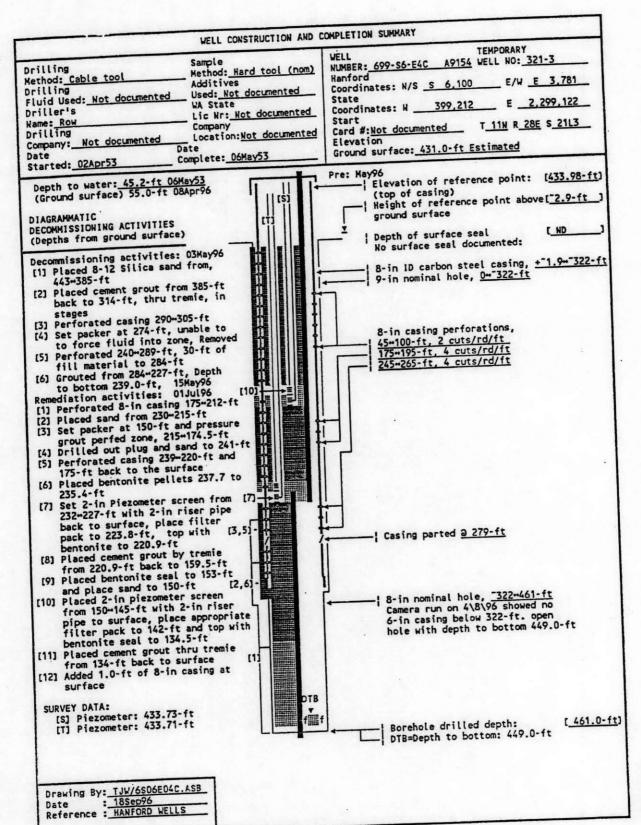
## **HWIS Interface - Well History Information - Drilling**

WELL_ID WELL_NAME DRILL_DATE ST	TART_CARD_NUMBER	DRILL_DEPTH	DRILL_DEPTH_UNITS	COMMENTS
A9154 699-S6-E4C 05/31/1953	4	161	ft	

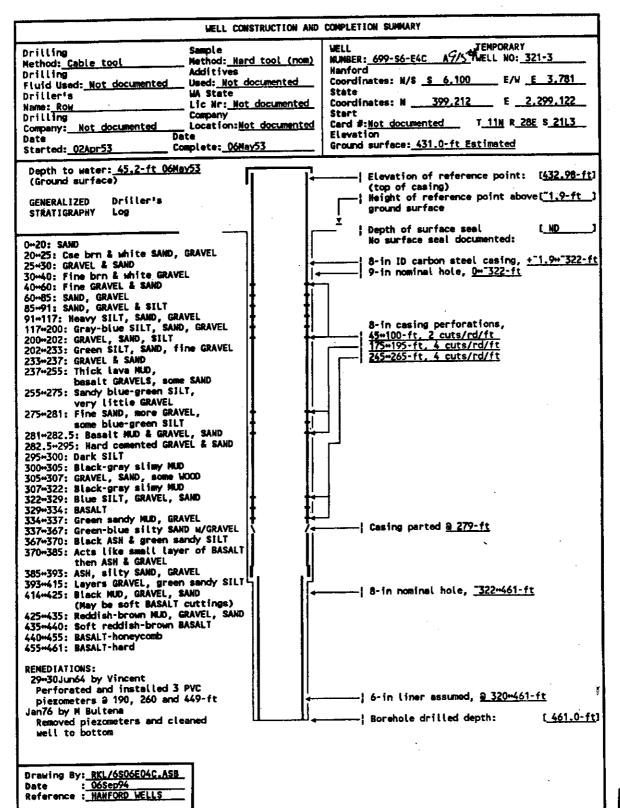
## SUMMARY OF CONSTRUCTION DATA AND FIELD OBSERVATIONS RESOURCE PROTECTION WELL - 699-S6-E4C

WELL DESIGNATION RCRA FACILITY 699-S6-E4C Not applicable Not applicable 5 .6,100 E 3,781 [HANFORD WELLS] N 399,212 E 2,299,122 [HANCONV] May53 661-ft CERCLA UNIT HANFORD COORDINATES : LAMBERT COORDINATES : DATE DRILLED DEPTH DRILLED (GS) MEASURED DEPTH (GS) : DEPTH TO WATER (GS) : Not documented Not documented 45.2-ft, 06May53 8-in, carbon steel, +1.9~322-ft; 6-in, carbon steel, ~320~461-ft 432.98-ft, [HANFORD WELLS] 431.0-ft, Estimated 45~265-ft CASING DIAMETER ELEV TOP OF CASING : ELEV GROUND SURFACE : PERFORATED INTERVAL : Not applicable FIELD INSPECTION, SCREENED INTERVAL COMMENTS OTHER: Driller AVAILABLE LOGS Not applicable Not applicable TY SCAN COMMENTS DATE EVALUATED Not applicable No water level data; PNL sitewide characterization EVAL RECOMMENDATION : LISTED USE CURRENT USER None documented PUMP TYPE MAINTENANCE REMEDIATIONS











Hanford Well:

nation System

Page 1 of 1

## **-IWIS Interface - Survey Information - Horizontal**

WELL_ID	WELL_NAME	SURVEY_CONTRACTOR	DATUM_TYPE	SURVEY_DATE	MEASUREMENT_METHOD	NORTHING	EASTING	SURVEY_UNITS	<b>:</b>	٤
A9788	699-S6- E4CP	HGIS	NAD83(91)	01/17/2000	UNKNOWN	121668.32	591055.38	m		
***************************************				<b></b>	······································		<b></b>		<b></b>	<u>.</u>

ERC Project:	Prepared By: K.A. Prosser Company: BHI
Date Requested: 1/17/00	Requestor: HGIS/HEIS
Date of Survey: 1/17/00	Surveyor: K.A. Prosser, BHI
ERC Point of Contact: L.A. Dietz	Survey Co. Point of Contact: n.a.
Description of Work: Survey wells on	Horizontal Datum: NAD83(91)
'NNL's list of current sampling sites.	Vertical Datum: NAVD88
	Units: Meters
	Hanford Area Designation: 600 Area

Coordinate System: Washington State Plane Coordinates (South Zone)

Horizontal Control Monuments: n.a., RTK OTF

Vertical Control Monuments: n.a., RTK OTF

Well Name	Well ID	Easting	Northing	Elevation	
699-S6-E4C	A9154				Center of Casing
					"X" on Rim
		591055.70	121668.5	132.61	Brass Cap
		591055.38	121668.32		N. side of casing

### Notes:

The GPS Job Name is "PNNL Wells" and the GPS Job Number is 316. A dual frequency Trimble 4000 SSi was used in RTK OTF mode. The approximate north side of the well's casing was surveyed as well as the approximate center of the brass cap.

### Surveyor Statement:

The estimated precision, at 2 sigmas, does not exceed 10 cm horizontal and 10 cm vertical, based on Trimble GPSurvey's Coordinate Adjustment Summary report.

BHI-EE-202 (09/98)

#### **RESOURCE PROTECTION WELL** Well ID STRUCTURE FIELD INSPECTION REPORT WELL IDENTIFICATION ID MARKINGS is the well labeled? Yos No If yes, should the casing be relabeled? Yes No No Does the well have a brees marker? Yes No No If yes, is the brass marker stamped with well ID? Yes No Does the casing need to be painted/ repainted thus requiring relabeling? Yes X No 6/4/97 6-56-E4C O. Hollynt WELL SITE IDENTIFICATION ics well have a barber pole? Yes No. If no, is one needed? Does well have an identification sign Yes No No If no, is one needed? posted at entrance to access route? If you identity facility Little Equat No lè well located in or around a 70 Yes perticular facility? (e.g., 216-A-10 orib. B-Y Tank Farms, B-Pond, etc.) is well located in a radiation zone? Yes DO No If yes, describe zone type irregular/Damage (describe) INSPECT WELL'SURFACE PROTECTION MEASURES WELL CAPS is the well capped? Yes ☐ No is the cap able to be locked? Y Yes ☐ No is the cap locked? N Yes □ No Describe existing problems with well cap, if any, or check none. N. Y CONCRETE PAD None M 4 11 x 4 11 ☐ 18 in. x 18 in. 2 ft round is it demaged? Yes X No irregular/Demage (describe) BARRIER POSTS our posts, min. 3 in. 10, 1 removable? X Yes no, describe barrier posts: How many poets? Diameter of posts? is there a removable post? Yes No irregular/Damage (describe)

A-8000-489 (06/85)

		CASING INFORI	MATION		
	CASING DIAMETE	RS: OUTER (SURFACE), INN	IER, AND OTHER - RECORD IN INC	HES	
ate diameter of casing. Desc	ribe type of casing (e.g.,	carbon steel, stainless steel,	PVC, etc.)		
Outer casing: OD/ID:	25/8/	5"	Type C.S.		1
Pierra					1
Inner oaking: OD/ID:			Туре 5.5		j
Other easing: OD/ID:	2-		Type 5.5.		
Other casing: OD/ID:			Туре		
Describe condition of top edge of	the highest most casing:				
☐ Jagged ☐	Uneven	Fairly Level	Beveled .		
Other (describe)	*				
			<b>57</b>		_
Describe protective casing damage	o, if any (e.g., hole in casi	ng, bent, etc.), or check non	e: None		
Distance from Johnsk and					-
Distance from: (check one)  Ground Surface	Cement Pad	To top edge of highest mo	pet casing 2-15		
		SAMPLING EQUIPMENT	INSTALLATION		
Describe type of pump system:					76
Hydrostar	Submersible	☐ Bladder	None		i
Describe type of pump system sup	port:		<u> </u>		
Hydrostar Plate	Well Seal	☐ J-Hook	Steel Cable	Pitless Adapter	1
Describe type of pump system:					
3/4 in. Stainless Steel	1 1/2 in. ABS	1 in. PVC	1 1/2 in. gelvanized		
tar/Damage (describe)					
		WELL SITE SAI	<u>FETY</u>		
Describe debris present at well site	, if any, or check none:	WELL SITE SAI			
Describe debris present at well site	, if any, or check none:	WELL SITE SAI	None		
			None		
escribe well site irregularities (e.g.	, down in pit, locked build	ling, overhead electrical pow	None None rer lines, on slope), or check none:	15 THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF TH	
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Sescribe well site irregularities (e.g.  Soff V  Sescribe survey mark location:  Top edge of highest most c	, down in pit, locked build	ling, overhead electrical pow	rer lines, on slope), or check none:	Is stamp clearly visible?	
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A-6000-499R (06/95)

Input A9154

STRUCT	JRE FIELD INSPEC	CTION REPORT	
LENGTH		Woll Name 6-56- E4C	Date 8/28/96
	in the American States and American States	Inspector (print) S. H. W.	1.4
		101911	
		Signature	
数位级 一		WELL IDENTIFICATION II	7 GADAMAN
<b>建建筑大利度</b>		to the well labeled?	NYoc II No
19 Se		If yee, should the coning be relabeled?	区Yes 口No
		Does the well have a brase marker?	□ Yen XJAb
W/10 %		If you, is the broos marker exampled with well ID?	Yes No
		Does the casing need to be painted/	□Yes □No
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octed at entrance to access route?  well located in or around a articular facility? (e.g., 218-A-10 oris, -Y Tank Farmo, 8-Pond, etc.)	∐ Yes   Mo	If no, is one needed? Yes	HILE Egypt
well located in a rediction zone?	☐ Yee X No	If yes, describe zone type	
equiar/Damage (describe)		on Military Technology and American	Adaptive and production of the stay
August 1997	The second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of th	CE PROTECTION MEASURES. LL CAPS	Separation of the separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate separate sep
the well aspped?	Xves II No		
the cap able to be locked?	₹Y∞ ☐No		Historia pro-
he cap locked? cribe existing problems with well cap, if any	Yes No		
The second control of the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second seco	reply lox	L None	The section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the se
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	4 4 4	Yes No	*
Losts	ed to be	1 talled Thou	140

Top edge of highest most casing Brass Marker Both None Yes No    DEPTH MEASUREMENTS		CASING INFORMATION	
Outer casing: OD/ID: 3 / 7 / 7 / 7 / 7 / 7 / 7 / 7 / 7 / 7 /		CASING DIAMETERS: OUTER ISURFACE), INNER, AND OTHER - RECORD IN INCHES	
trose casing: OD/ID: 2	licate diameter of casing. Des	scribe type of casing (e.g., carbon steel, stainless steel, PVC, etc.)	
Inner ceiling: OD/ID: 2" Type 35 Pix 20 45" Other ceiling: OD/ID: 2" Type 95. Pix 20 45" Other ceiling: OD/ID: 2" Type 95. Pix 20 45" Other ceiling: OD/ID: 2" Type 95. Pix 20 45" Other ceiling: OD/ID: 4" Type 95. Pix 20 45" Describe protective ceiling demenge, if any fa.g., hole in ceiling, bank, etc.), or check none: Shore Other (describe)    Carment Pad	Outer casing: OD/ID:	: 756"/ 778" -TVOT C.S.	
Other casing: OD/ID: 2 // Type S.S. PILZO W.T // Type Describe condition of top edge of the highest most casing.    Type   Bevaled   Describe protective casing damage, if any is g., hole in casing, best, etc.), or check none:     Shone   Describe protective casing damage, if any is g., hole in casing, best, etc.), or check none:     Shone   Describe protective casing damage, if any is g., hole in casing, best, etc.), or check none:     Shone   Describe protective casing damage, if any is g., hole in casing, best, etc.), or check none:     Shone   Describe type of pump systems:   Submersible   Bladder   Rhone	Inner cesion: OD/ID:	9" 90 55 40"	,
Other casing: OD/ID:		0/1	1
Describe condition of top edge of the highest most casing.    Staggood   Unaven   Fairly Level   Beveled	Other casing: OD/ID:	Type	
Other (describe)  Describe protective cesting damage, if any (e.g., hole in casing, bant, etc.), or check none:    Distance from: (check cere)	Other casing: OD/ID:	Type	
Other (describe)  Describe protective casing damage, if any (s.g., hole in casing, bart, etc.), or check none:    Distance from: (check one)	_		
Distance from: (check one)    Distance from: (check one)   When   Polared	Jagged	Uneven Fairty Level Beveled	
Distance from: (check one)    Ground Surface   Camert Ped   To top edge of highest most casing   2.55	Other (describe)		
Describe type of pump system:	Describe protective casing damage	ge, if any (e.g., hole in casing, bent, etc.), or check none:	
Describe type of pump system:	Distance from: (check one)	when poured!	
Describe type of pump system support:    Hydroster   Submersible   Bladder   None   Describe type of pump system support:   Hydroster Plate   Well Seal   J-Hook   Steel Cable   Pfitless Adapter     Describe type of pump system:   3/4 in. Stainless Steel   1 1/2 in. ABS   1 in. PVC   1 1/2 in. galvenized     gular/Damage (describe)   WELL SITE SAFETY     Describe debria present at well site, if any, or check none:   G Prums   Winc   Posts for fad   1 in. PVC   None   None     Describe well site irregularities (e.g., down in pit, locked building, overhead electrical power lines, on slope), or check none:   None     SURVEY INFORMATION     SURVEY INFORMATION   Is stamp clearly visible?     Top adge of highest most casing   Brass Marker   Both   None   Yes   No     None   DEPTH MEASUREMENTS     Depth to Bottom:   Depth to Bottom:     OMMENTS   OMMENTS     COMMENTS   DIW = 64,08 DIW = 234,74' Toc   OMMENTS     COMMENTS   DIW = 64,08 DIW = 234,74' Toc   OMMENTS     COMMENTS   DIW = 64,08 DIW = 234,74' Toc   OMMENTS     Comments   Diw = 234,74' Toc   OMMENTS     Comments   Diw = 234,74' Toc   OMMENTS     Comments   Diw = 234,74' Toc   OMMENTS     Comments   Diw = 234,74' Toc   OMMENTS     Comments   Diw = 234,74' Toc   OMMENTS     Comments   Diw = 234,74' Toc   OMMENTS     Comments   Diw = 234,74' Toc   OMMENTS     Comments   Diw = 234,74' Toc   OMMENTS     Comments   Diw = 234,74' Toc   OMMENTS     Comments   Diw = 234,74' Toc   OMMENTS     Comments   Diw = 234,74' Toc   OMMENTS     Comments   Diw = 234,74' Toc   OMMENTS     Comments   Diw = 234,74' Toc   OMMENTS     Comments   Diw = 234,74' Toc   OMMENTS     Comments   Diw = 234,74' Toc   OMMENTS     Comments   Diw = 234,74' Toc   OMMENTS     Comments   Diw = 234,74' Toc   OMMENTS     Comments   Diw = 234,74' Toc   OMMENTS     Comments   Diw = 234,74' Toc   OMMENTS     Comments   Diw = 234,74' Toc   OMMENTS     Comments   Diw = 234,74' Toc   OMMENTS     Comments   Diw = 234,74' Toc   OMMENTS     Comments   Diw = 234,74' Toc   OMMENTS     Comments   Diw = 234,74' Toc	Ground Surface	Cement Pad To top edge of highest most casing 2,55	
Hydrostar   Submersible   Bladder   None		SAMPLING EQUIPMENT INSTALLATION	-
Hydrostar   Submersible   Bladder   None	Describe type of pump system:		
Describe type of pump system support:    Hydrostar Piste	_	Submersible Bladder None "	
Describe type of pump system:    3/4 in. Steinless Steel			i
3/4 in. Stainless Steel	Hydrostar Plate	☐ Well Seal ☐ J-Hook ☐ Steel Cable ☐ Pitless Adapter	
WELL SITE SAFETY	Describe type of pump system:		i
Describe debris present at well site, if any, or check none:  G Prums Wire & Posts for Pad to like installed  Describe well site irregularities (e.g., down in pit, locked building, overhead electrical power lines, on slope), or check none:    SURVEY INFORMATION	3/4 in. Stainless Steel	1 1/2 in. ABS 1 in. PVC 1 1/2 in. gelvenized	
Describe debris present at well site, if any, or check none:  G Prums Wire & Posts for Pad to like installed  Describe well site irregularities (e.g., down in pit, locked building, overhead electrical power lines, on slope), or check none:    SURVEY INFORMATION	nuler/Demana (describe)		
Describe well site irregularities (e.g., down in pit, locked building, overhead electrical power lines, on slope), or check none:    SURVEY INFORMATION	Describe debris present at wall site		
SURVEY INFORMATION			
Describe survey mark location:    Top edge of highest most casing			
Describe survey mark location:    Top edge of highest most casing	•		-
DEPTH MEASUREMENTS  DEPTH MEASUREMENTS  Depth to Water:  Depth to Bottom:  COMMENTS  COMMENTS  COMMENTS  DEPTH Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service		SURVEY INFORMATION	
Top edge of highest most casing Brass Marker Both None Yes No    DEPTH MEASUREMENTS		Salver in online non	
DEPTH MEASUREMENTS  Depth to Water:  Depth to Bottom:  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  C	Describe survey mark location:		
DEPTH MEASUREMENTS  Depth to Water:  Depth to Bottom:  COMMENTS  COMMENTS  COMMENTS  COMMENTS  DEPTH MEASUREMENTS  COMMENTS  COMMENTS  DEPTH MEASUREMENTS  DEPTH MEASU	Top edge of highest most o	casing Brass Marker Both None Yes No	
Depth to Water:    Depth to Bottom:   Depth to Bottom:	Other (describe)		
Depth to Water:    Depth to Bottom:   Depth to Bottom:		DEPTH MEASUREMENTS	
COMMENTS  - Piezos:  6-36-E4C "S" DIW=64:08 DIB=234.74' TOC			
COMMENTS  Piezos: 6-86-E4C "5" DTW=64.08 DTB = 234.74' TOC			
. Piezos: 6-86-E4C "5" DIW=64,08 DIB = 234,74' TOC	comments: <u>)CC</u>	Delow	
. Piezos: 6-86-E4C "5" DIW=64,08 DIB = 234,74' TOC		COMMENTS	
6-36-E4C "5" DIW=64:08 DIB = 234.74' TOC	2		
	11203.		
	6-36-640	C ) DIW= 64,08 DIW = 234,74' TOC	
	6-S6-E40	- 11	

JUN 0 8 1996 9 A 9/54

## RESOURCE PROTECTION WELL OTHER TIPE TIPE INSPECTION REPORT



6-56-E4C 4/5/96

well have a barber pole?

as well have an identification sign posted at entrance to access route?

particular facility? (e.g., 216-A-10 crib, B-Y Tank Farms, B-Pand, etc.) D. Hollymby

1 Yes

Yes

Yes

WELL SITE

☐ No

No-

I. No

199-5/ = 40	D	41	later
Well Number 6/1/2/67/75			7/1/2 Taylorian
Inspector (print) DE HOLL	35000	*	
Signature O. S. H.C. Coppe	14		in For
Applied System Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee C			AND INC.
WELL IDENTIFICATION	N ID MARKI	NGS	
is the well labeled?	- 1. proster	A 400	☐ No
If yes, should the casing be relabeled?		Yee	[No
If yes, is the brass marker stamped		Yes	LJ N6
with well ID?			∐ Ne
Does the casing need to be painted/ repainted thus requiring relabeling?		Yea	☑.No
	mA 12	· An	e on Herrie Magnitus of
hroquianties <u>AJNA-DLE (O. )</u>			S. Manuely, e. P.
		4.05.12	
TIRCATION	-	AT MAKING	
TIFICATION  If no, is one needed?	-		E PRESENT ON THE LOW PROCESS TO SERVICE STATE
	-		
If no, is one needed?	-	] No	
If no, is one needed?  If no, is one needed?  If yes, identify facility	<b>Y••</b>	] No	
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	CASING DIAMET	CASING INFORTERS: OUTER (SURFACE), IN	MATION NER, AND OTHER - RECORD IN	INCHES
Outer casing: OD/II	escribe type of casing (e.g.	, carbon steel, steinless steel	PVC ato 1	_
Inner casing: OD/II	D.			
			Туре	
			Туре	and the state of
Other casing: OD/II	):		Туре	
Describe condition of top edge  Jagged  Other (describe)		Fairty Lovel	Beveled	
Describe protective casing dame	age, if any (e.g., hole in cas	sing, bent, etc.), or check nor	ie: None	
2	holes in	Casina (L	Ifting holes	
Distance from: (check one)		7	1012	
Ground Surface	Coment Pad	To top edge of highest mo	est casing	5'
		SAMPLING EQUIPMENT	INSTALLATION	
Describe type of pump system:			,	
Hydroster	Submersible	☐ Bladder	None	
Describe type of pump system s	upport:			
☐ Hydrostar Plate	Well Seal	☐ J-Hook	Steel Cable	Pitiess Adapter
Describe type of pump system:				
3/4 in. Stainless Steel	1 1/2 in. ABS	1 in. PVC	1 1/2 in. galvanized	
ular/Damage (describe)				
,				
Describe debrie present at well sit	te, if any, or check none:	Poly tubing		
escribe well site irregularities (e.	g., down in pit, locked build	ling, overhead electrical power	er lines, on slope), or check non-	e: None
		SURVEY INFORMA	704	
		SURVEY INFORMA	TION	
escribe survey mark location:  Top edge of highest most (ther (describe)	casing Brass	Marker Both	None	is stamp clearly visible?  Yes No
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Puc Plug out of 6-56-E4 4/5/96 0.8. Hollywith

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PERFORM A	CAMERA SURVEY.			
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ove item(s) prevent s if yes, sample coll			Notification By S.H. WORLEY	
ii yos, sariipie coi	7 f.a. Yes	□ N ₀ , <b></b>	Title/Organization ADV PLANT	ENGINEER/W.S.
required by:	stest Date	- No E	Signature/Date Al Dolly	04/04/96
	FORWARD TO: GROUNDWA	TER WELL SERVIC	ES SECTION, ENVIRONMENTAL DIVISIO	N, WHC
	COMPLETED B	Y GROUNDWA	TER WELL SERVICES SECTION	and the second
ification Received by			Assigned Priorit	y Levels
H herry	04/04/98		item 1: 1 📉	2 🔲 3 🗍
R No.:	Planning Report N	lo.(s):	item 2: 1 🛣	2 🗍 3 🗍
96-158	96-158₽		Item 3:	

AH horry	04/04/96	tem 1: 1 🗓	2 🗍 3 🗍
WSR No.:	Planning Report No.(s):	item 2: 1	2 3 3
96-158	96-158₽	Hom 3: 1	<u> </u>
	WELL SERVICE	S PERFORMED	
Item 1: Camera S	unvey completed, could not	use comen that record	le se info is
on Comera	envey form: Not on a		
		M	
	Britand No. 10	0-44	he 1/11 //
Item 2: Remuel	a large PVC plug from	ignature/Date: <u>DE Hollingsworth</u> welf.	0.2. Allymoth 4/15/96
		M	
	Printed Name/Si	ignature/Date: DE Hollingwolf	6. F. Holland 4/15/46
Item 3:			7.7.
		10	
	Printed Name/Si	gnature/Data:	
	1 1910 1		
Closed Out By: S.H. W		4-19-96	
_	Printed	Name/Signature/Date	

Well ID		\A IP-I	L OFFICIAL STATES				
A9154	F	WELL SERVICES REQUEST RESOURCE PROTECTION WELL SERVICES					
			IFYING ORGANIZATION				
Well Name 6-S6-E4C	Date Identified 08/27/96	identified By (Printed )		111			
			UL/PER PHONE CALL FOR WELL SERVICES REQUEST	No. No.			
SUPPORT COR			WELL SENVICES REQUES!				
em 1:	UNDWATER SAMPLING	/ IES11NO.					
		<u> </u>					
om 2:							
<u> </u>		<del></del>	4				
om 3:							
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		<del></del>	Title/Organization ADV. PLANT	ENGINEER/W.S.			
required by:(	nt Date		Signature/Date & Whiley	8/27/96			
<u></u>		PORWARD TO M	FLL SÉRVICES, WHC				
	000						
tification Received by - Sign	ature/Date:	MIPLE LED BY	WELL SERVICES Accigned Prior				
CH. Woley	8/27/96	İ	Norm 1: 1 [X]	2			
R No.: 76-255	Planning Report No.		4 <del></del>	<del>-20-20-</del>			
76-233	SURFACE TA	<u>i</u>		<del>20 20</del>			
	1^	WELL SERVICE					
1: Somplefed	Surpling an	ed Ksting	Per coy. eng.				
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	, 117.	Printed Name/Signa					
d Out By: S.H. WO	RLEY / SON	Wuly-	19-17-96				
	OLLOWING CLOSURE OF ALL	Trinted I	Name/Signature/Data MPLETED COPY TO NOTIFYING ORGANIZA				

DRILLING LOG G99-5C-E4C PROJECT NO. 56-E4-C Rig No. A.E.C. 22-3128 Nell No. 321-3 Depth beginning of Shift O Driller Row Foreman____ Depth completion of Shift ____ OTHER DELAYS CORING TYPE SOIL DRILLING Explanation Time Time Depth Time Depth 7:35 to 7:50 Driving to location Tearing down and moving 7:50 to 12:00 12:00 to 1:30 Rigging up. 1:30 to 2:15 2:15 to 3:00 Running 17'9" pipe 3:00 to 3:20 3:20 to 4:00 13.3 REMARKS 100

#### DRILLING LOG

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PR	0.5	ECT	NO.		_

Rig No. A.E.C.	22-3128
Well No. 321-3	j.
Driller Row	

	-	. 1	Date	4/3/53	· · · · · · · · · · · · · · · · · · ·	
			Shift			
pth	beginning	of :	Shift	15'		
	completion			551		

DRIL	LING	CO	RING	TYPE SOIL		OTHER DELAYS
Time 🥕	Depth	Time	Depth		Time	Explanation
San :					7:50 to 8:20	Welding 7' Pipe (24'9" Over hole)
8:20 to 8:50	20'	Coarse sand	brown and	white, gravel.		
8 <u>:50 to 9:35</u>	25'	Gravel and	sand		·	
				· · · · · · · · · · · · · · · · · · ·	9:35 to 9:55	Welding 7'2" Pipe (31' 11" Over hole)
9:55 to 10:45	30'	Fine brown	and white s	ind, gravel	10:45 to 11:15	Welding 6' 11" Pipe (38' 10" Over hole)
1 <u>:15 to 11:45</u>	351	Fine brown	and white s	and, gravel		
1:45 to 12:30	401	Fine gravel	sand.			Λ
(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)					12:30 to 1:00	Welding 7' Pipe (45' 10" Over hole)
1:00 to 1:30	451	Fine gravel	and sand			
		1			1:30 to 2:00	Welding 7'1" Pipe (52' 11" Over hole)
2:00 to 2:40	50'	Fine gravel	and sand		2:40 to 3:10	Welding 6' 11" Pipe (59' 10" Over hole)
3:10 to 4:00	551	Fine gravel	and sand.	·		

REHARKS







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A TO C	ະ. ຕາວວາດ0						· · · · · · · · · · · · · · · · · · ·
Rig No. A.E.C		· · · · · · · · · · · · · · · · · · ·			•	Date 4/6/53	
Nell No. 321		<u> </u>				Shift	•
Driller Row	<u> </u>	· · · - · · · · · · · · · · · · · · · ·			Depth beginning	of \$hift55'	· •
Foreman	<del></del>	<del> </del>	·•		Depth completion	-0.	
DRII	LLING	COI	IING	TYPE SOIL		OTHER DELAYS	
Time	Depth	Time	Depth ·		Time	Explanation	
1 分類分	<del></del>		<del> </del>				
				<u> </u>	7:35 to 7:50	Driving to location.	
	<del></del>			<u> </u>	7:50 to 8:30	Welding 6'11" Pipe (66'9"	over hole)
8:30 to 10:30	601	Gravel, san	d, caves-u	ses lots of wat	er		
10:30 to 12:15	651	97 ' 11		11 11 11 11			
	•				12:15 to 12:45	Welding 6'11" Pipe 73'-8"	
12:45 to 1:55	70'	Sand, grave	1 00000 1		LEAD W LEAF)	We further of the 139.	,
			<u>ı,caves, ı</u>	oses water			
	· · · · · · · · · · · · · · · · · · ·			<u> </u>	1:55 to 2:25	Welding 6'11" Pipe 80'-7"	· · ·
2:25 to 3:25	75!	Sand and g	avel				
3:25 to 4:00	781	Sand, grave	l and wate	r			·
			·				
	<del></del>			<u> </u>	<u> </u>		
				DFM	ARKS		
						•	V.
Water a	t. 761				4		
1 (2 s) 1 (2 s)	,						
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4	<del> </del>	<u></u>	<del> </del>	<del></del>			
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DRILLI LOG

P	ROJ	ECT	NO.	
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Rig	No.	A.E.C.	22-3128	
		<b>*321-</b> 3		
		Row		
_		47-18		

	Date	<u>4/9/53</u>	
· · · · · · · · · · · · · · · · · · ·	Shift		•
Depth beginning	of Shift	<u>78'</u>	
Death completion		981	

	·~ DR I	LLING	Co	RING	TYPE SOIL		OTHER DELAYS		
		o. Depth	Time	Depth		Time	Explanation	4.4.5	
; <del>-</del>	粉粉					7:35 to 7:50	Driving to location		
<u> </u>	S.A.	Š.		_		7:50 to 8:05	Testing for water		-
8:0	05 to 8:35	80°	Sand, Grave	1					· :
9:	05 to 10:3	851	Sand, grave	l and silt				r _g . sate	
	30 to 12:2	·			t.Lite formation				
	<b>W</b>	***				12:20 to 1:50	Welding 7' pipe 94'	l ⁱ Over hol	е
1.	50 to 3:00	95 i	Sand, grave	l, heavy s	ilt		* **A		1,50
- <del>-</del>	網			•		3:00 to 3:30	Welding 6'-11" Pipe	101'10"-074	rhole
3:	30 to 4:00	981	Sand, grave	l, heavy si	lt.			· · · · · · · · · · · · · · · · · · ·	<u> </u>
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_								· .	

### REMARKS

85 to Theavy silty sand, some gravel, drills slow and hard. Makes lots of mud	

PROJECT NO.

01 - M - 1A TP	n 932198			•				
Rig No. A.E.			•				4/10/53	
Nell No.		<del></del> ,	•		N.	'Shift		
DrillerI						ng of Shift		<u> </u>
Foreman		<del></del>	•		Depth completi	on of Shift	120'	
DRI	LLING	co	RING	TYPE SOIL		OTHER DELAYS		· · · · · · · · · · · · · · · · · · ·
	Depth	Time	Depth		Time	Expla	nation	
$\widetilde{g}_{i,j}$					7:35 to 7:50	Driving to lo	cation	
AND STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE S		1 .			7:50 to 8:05	Testing for v		
8:05 to 8:30	100'	Heavy silt,	sand and	gravel.				
8:30 to 9:30	יכ105	Heavy silt,						
A STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STA				·	9:30 to 10:00	Welding 7'-6'	' Pipe (109'-4"	Over hole)
10:00 to 11:3	0 110'	Heavy silt,	sand and	gravel				
					11:30 to 12:0	N Welding 7'-1'	' Pipe (116'-5"	Over hole)
<b>维烈</b>					1	O changing bits		
12:30 to 1:45	115/	Heavy silt,	sand and g	gravel				
1:45 to 3:00	120'	Dark grayis	h bhe silt	& sand, gravel				
and a					3:00 to 4:00	Loading tools	s and hauling.	
	<b>*</b>						· · · · · · · · · · · · · · · · · · ·	and the second second
				REM	ARKS			
	72'-6" fro	n L.S						
at 117 ft.	, hit gray:	lsh blûe-silt	with sand	and gravel.				
								Λ
44	ś							
<b>100</b>		_			•			L.
34 3					14			100



### DRILLING LOG

P	ROJ	FCT	NO.	
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**************************************		•		•			* .
Rig No. A.E.	<b>c.</b> 22-3128	·			·	Date 4/13/53	
Nell No	321-3		. •		-	Shift	•
Driller	Row				Depth beginni	ing of Shift 120'	
Foreman					Depth completi	lon of Shift	
DR	ILLING	CO	RING	TYPE SOIL		OTHER DELAYS	
Time	Depth	Time	Depth -		Time	Explanation	
#5. 5. 5.			······		7:35 to 7:50	Driving to location	· ·
i si si si si si si si si si si si si si	<i>:</i>	,			7;50 to 8:15	_	
<u> </u>					8:15 to 8:45	Welding 6'-11" Pipe (123'-4" Over	hole)
8:45 to 10:	0 125'	Grayish-blu	e silt-san	d,gravel, mud			
***				•	10:40 to 11:	10 Welding 7' Pipe (130'-4" Over hol	.e)
11:10 to 12:	¹ 0 130'	11 01	67 H	11 11-	12:40 to 1:1	,	•
1:10 to 2:4	5 135'	11 11	11 11	11 15		. Α	
2:45 to 4:0		ion n	11 11	rt ti			
• •					·		
	1						
				REI	1 A R K S		
120 to 140	grayish b	lue silt, san	d, fine to	coarse gravel,	makes lots of	mud and mud is up. Caves badly.	· .
				d then a layer			
7 100		1					
							2
							Times.
H	ŽA:						1

PROJECT NO.

<u> </u>						h /zh /co
Rig No. A.E.		<del></del>	•			Date 4/14/53
Nell No. 321-						Shift
Driller Row					Depth beginning	OI SHITE
Foreman		<del>'- b</del>			Depth completion	n of Shift 163'
DR I	LLING		ORING	TYPE SOIL		OTHER DELAYS
Time	Depth	Time	Depth		Time	Explanation
H.					7:35 to 7:50	Driving to location.
4.				·	7:50 to 8:15	Testing for water.
1,1					8:15 to 8:45	Welding 7'-1" Pipe 144'-4" Over hole
8:45 to 10:	30 145'	Bluish-gr	ay silt, sa	nd. gravel		
7.4	·				10:30 to 11:00	O Welding 7' pipe 151'-4" Over hole
11:00 to 12:	00 150'	)! 1	11 11 21	н		
1 <u>2:00 to 1:2</u>		11 1	11 18	17	1:20 to 1:50	Welding 10'-7" Pipe 161'-11" Over hale
1:50 to 3:1		11 1	1 11 11	11		
3:15 to 4:0		"	, ,, ,,	tr .		
3:17 00 4:0	<u> 103.                                     </u>					
	1					
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				<del></del>		
This mud si	mell like h	ell. Rotte	n eggs.			j.
		ts of bluis	sh gray silt	with lots of	gravel. up to 4"	
* * * * * * * * * * * * * * * * * * *						

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P	ROJ	ECT	NO.	
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Rig No. A.E.C. 22-3128
Neli No. 321-3
Driller . Row
For any

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		Date	4/15/53	<u> </u>
		shift		
Depth	beginning o	of Shift	1631	ŀ
Depth	completion	of Shift	1851	

DRILLING		CORING		TYPE SOIL	OTHER DELAYS		
Time	% Dept	h	Time	Depth		Time	Explanation
						7:35 to 7:50	Desired to 1
							Driving to location
*****		1.1		L		7:50 to 8:10	Taking water sample
					<u> </u>	8:10 to 8:40	Welding 6'-11" Pipe (168'-10" Over hole)
:45 to 9:10	165	<u> </u>	Bluish gray	silt, grav	el, sand.		
:10 to 10:40	170		Bluish gray				
19 S						10:40 to 10:50	Welding 7' Pipe 175'-10" Over hole
50 to 12:05	175	<u> </u>	Bluish gray	silt, grav	el, sand		A A A A A A A A A A A A A A A A A A A
2:05 to 1:15	180		Bluish gray		1 "		
	·					1:15 to 1:45	Welding 9'9" Pipe (185'-8" Over hole)
l:45 to 2:30	185	1	Bluish gray	silt, less	gravel	2:30 to 4:00	Repairing machine.
4. 注	l						

REMARKS

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No.



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P	ROJ	ECT	NO.		

Rig No.	LE.C. 22-	3128
Nell No.	321-3	
Driller_	Row	
Forese	o.T. 13	

•	Date	4/16/53	
	Shift_		•
Depth beginning of	Shift	185'	
Depth completion of	Shift	195'	

Foreman					Depth completion of Shift 195'		
DRI	LLING	CORING		TYPE SOIL		OTHER DELAYS	
	Depth	Time	Depth		Time	Explanation	
					7:35 to 8:00	Driving to 200 East	
* (				-	8:00 to 10:45		
The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s					10:45 to 12:	Putting on Jars-Changing bits & Rope socket	
1 <u>2:00 to 1:1</u>	5 ³ 190'	Sand, grav	el, silt,	bluish gray			
	1				1:15 to 1:45	Welding 6'-11" Pipe (192'-7" Over hole)	
1:45 to 3:3		11 11	n	11 11			
	¥13				3:30 to 4:00	Welding 7' Pipe (199'-7" Over hole)	
			•				
		. :					
: 1						•	

Water was 79.5 feet from L.S.L.		
185 to 195 - Drills slow-Bails hard.		
	* .	
		A
1,		





PROJECT NO.

Rig No. A.E.C. 22-3128
Nell No. 321-3
Driller Row
Foregen

		Date	4/17/53	
		Shift_		
Depth	beginning of	f Shift_	195'	1
Depth	completion of	f Shift	230'	• .

- Com-		<del></del>			· · · · · · · · · · · · · · · · · · ·	
, ← DR I	TLING	COL	RING	TYPE SOIL		OTHER DELAYS
Time	Depth	Time	Depth		Time	Explanation
ે છું <del>લોક</del> આ <b>ઉ</b> ત્તર				·	7:35 to 7:50	Driving to location
14 S.					7:50 to 8:05	Testing for water.
:05 ta 9:20	2001	2 ft grave	sand, si	t 3 ft gr.silt /	send	
:20 to 9:50	205!	Green silt,	sand, find	gravel	9:50 to 10:20	Welding 10'-1" Pipe (209'-8" Over hole)
:20 to 11:1	210'	<b>81</b> 19	u tr	11	·	
:15 to 12:00	215'	• 11 11	11 11	11	12:00 to 12:30	Welding 7'-8" Pipe 217'-4" over hole
:30 to 1:20	220	11 11	11 11	11	1:20 to 1:50	Welding 7'-7" Pipe 224-111" over hole
50 to 2:30	2251	11 11	11 11	10		
:30 to 3:15	230'	Green silt,	small bit	of shale, sand	, small gravel	
***				!	3:15 to 3:45	.Welding 7'-3" pipe (232'-2" over hole)
					3:45 to 4:00	Cleaning out hole and bailing.

197' to 230' hit green silt with fine sand. Some gravel/also small bits of shale as	you to into form	ation.
Drills good, bails hard. Mud is up badly. So muddy the bailer will not follow.		

	ECT		

Rig No. A.E.C. 22-3128	•	Date4-20-53	
Well No. 321-3	•	Shift	_
Driller Row		Depth beginning of Shift 2301.	_
Foreman		Depth completion of Shift 255'	_

DRILLING			CORING			OTHER DELAYS
Timo 🏰 🗧	Depth	Time	Depth		Time	Explanation
	,				7:35 to 7:50	Driving to location
8:05 to 8:4	) 235'	3 ft gree	n silt, 2 ft	gravel & sand	1 1 1	Measuring and sampling water.
					8:40 to 9:10	Welding 6'-11" Pipe (239'-1" Over hole)
9:10 to 10:	10 5 ₁ 0,	2 #t grav	e -3 ft			
The Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Co					10:10 to 10:40	Welding 7' pipe (246'-1" Over hole)
0:40 to 12:	245	Thick lav	a mud. Basal	gravels, sand	1 1	
2:00 to 1:4	250'	11 19	11 11	It to		Α
					1:40 to 2:10	Welding 7' Pipe (253'-1" Over hole)
2:10 to 3:4	255'	19 11	11 11	14 11		
4		× 1 1			3:45 to 4:00	Cleaning out hole
THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE S						
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## REMARKS

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Water was	100	ſt	from	Land	BOR-	level.

Left the greenish silt, and went into gravel at 233' to 237'. 237' to 255' heavy mud with lots of basalt

gravels and some sand.

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HW-6.287

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r	RVUE	וע	H V 4	

Rig No	A.E.C. 22-3128
Well No.	321-3
	Row
	1947 19

		:	Date	4/21/53		
			Shift			: •
Denth	beginning	of	Shift	<u> 255'</u>	 · ·	1 ¹ * ·
	completion			2851	 	

DRIL	DRILLING		CORING				OTHER DELAYS
Time	Depth	Time	Depth			Time	Explanation
						7:35 to 7:50	Driving to location.
· •2						7:50 to 8:10	Testing and measuring water.
70.						8:10 to 8:40	Welding 7'-7" Pipe (260'-8" Over hole)
8:40 to 9:30	260'	Sandy blui	sh-green s	ilt,very 1	ittle	gravel	
9:30 to 10:00	2651	17 11	11	11	11	"10:00 to 10:	O Welding 7'-3" Pipe (267'-11" Over hole)
0:30 to 11:00		11 t1	H	() 1 <b>†</b>	` II	"11:00 to 11:8	O Welding 6'-11" Pipe (274'-10" Over hole)
11:30 to 12:0	00 275'	31 11	It	11 11	11	11	A
12:00 to 1:15		Sand, grav	el, silt-g	reen			
						1:15 to 1:45	Welding 7' Pipe(281'-10" Over hole)
1:45 to 3:30	2851	Basalt mud	and grave	1, sand			
\$ 100 m						3:30 to 4:00	Welding 7' Pipe (288'-10" Over hole)
15.0							

Water was 85' from L.S.L. This water is coming from a lower strata. 255' to 275' Sandy Blue			<u> </u>
gravel. Some layers of gravel up to 25" Diameter. 275'-281' Fine sand, more gravel. Some b	lue-green si	1t	<b>.</b>
281' to 285' Slimy black mud. Basalt chips with some 4" Basalt.			
Gravel and sand. This formation drills slow and hard. Rails good.			
Pipe stopped at 282.5' Forced pipe through this formation. Got out. Some fairly large grav	<u> </u>		77 fc.

- av - 6.287

#### DRILLING LOG

P	RO.	J	EĈ	T	NO.	•

Rig	N o	A.E.C.	22-3128
Ke I I	No.	<b>₹</b> 321	-3
		Row	
Fore		城省	

Date 4/22/53

Shift 285'

Depth completion of Shift 300'

: @DRIL	LING	CORING		TYPE SOIL	OTHER DELAYS				
Time ( 12)	Depth	Time	Depth		Time	Explanation			
\$7					7:35 to 7:50	Driving to location.			
9.21				·	7:50 to 8:10	Testing for water.			
7,34					8:10 to 9:00	Driving pipe. Drove to 285'			
:00 to 9:40	2881	Hard cement	ed gravel	and sand.					
1					9:40 to 10:00	Driving pipe. Drove to 287½!			
					10:00 to 10:30	Changing bit.			
0:30 to 11:2	5 290'	Hard Cement	ed gravel	and sand.	11:25 to 11:55	Welding 7'-7" Pipe (296'-5" Over hole)			
1:55	•				11:55 to 1145	Sweging out pipe.			
1:45 to 3:30	295'	Hard cement	ed gravel	and sand.		<u> </u>			
3:30 to 4:00	300'	Dark silt							
\$1.74 B									

### REMARKS

Water was 85' from L.S.L.

919

Put crimp in pipe on last drive at 11:55 a.m. From 285 to 295' This is the hardest formation I have ever found to drive pipe through. At times it acted like basalt. It took longer to drive pipe than it did to drill this formation. This formation is from 2822' to 295'. The gravel is coated with a greenish sandy cement formation with small gravel clinging to gravel held by this cement formation. Lots of the gravel has rinds 1/16" thick around them.



PROJECT NO. _____

Rig No	. A.E.C. 22-3128	
Nell I	lo. <u>~321-3</u>	_
Drille	Row	•
Fores	1 Sept. 1	

	Date	4/23/53	·,
	Shift		
Depth beginning of	Shift	3001	١,
Depth completion of	Shift	3221	

7 (8)		-			Depth completi	on of Shift 3221	
DRILLING		CORING		TYPE SOIL	OTHER DELAYS		
Time 💢	Depth	Time	Depth		Time	Explanation	
, 2 <u>#</u>					7:35 to 8:00	Driving to location.	
		:			8:00 to 8:20	Measuring and sampling water.	
8:20 to 9:45		Slimy blac	K-gray mud,	some wood			
					9:45 to 10:15	Welding 6:-11" (303:-4" Over hole)	
	2				1	5 Welding 6'-7" Pipe (309'-11? Over hole)	
10:45 to 12:0	י 310	2 ft grave	l, 3 ft sli	my black-gray mu		ravel in this mud.	
12:00 to 1:00	315'	Slimy blac	1	(same as above)		Λ	
1:00 to 2:00	<i>\$</i> 5 3201	(Same as	bove)		2)00 to 2:30	Welding 7' Pipe (316'-11" Over hole)	
2:30 to 2:50	3221	(Same as	bove)		2:50 to 3:20		
<u>* 1888</u>		1			3:20 to 3:40	•	
.7%						from L.S.L. or 43 ft from bottom of hole	
	-						

300 to 305' - Black-gray slimy mud. Hit some gravel at 305'. Also mome woods in the 300 to 305' sample.	
305; to 307'-Gravel, sand. 307' to 322' - Black gray slimy mud. Few small gravel, very fine sand. Some pieces like	shala
Parted pipe at 320 p.m. At 279' from L.S.L. or 43 ft from bottom.	
	Car



PROJECT NO.

Rig No	A.E.C. 22-3128	3
Well No.	321-3	
Driller_		
_		

A 2 .

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Date 4/24/53

Shift 322'
Depth beginning of Shift 322'

DR1	LLING	CO	RING	TYPE SOIL	OTHER DELAYS	
Time	Depth	Time	Depth		Time	Explanation
	• - (\$)	· · · · · · · · · · · · · · · · · · ·			7:35 to 11:00	THE TAX IS A VAND AND HAVE
					11:00 to 4:00	undercut bit made.  Hauling 6" Pipe-Swage and supplies to well.
				-		
	A ^N			•		
			<del></del>			Λ
***	70	· .		<del> </del>		

REMARKS

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## DRILLING LOG

P	RO.I	ECT	NO.		
	11 0 0	LVI	n v e		

Rig No. A.E.C	. 22-3128		•			Date 4/27/53
Well No. 321-						Shift
				ng of Shift322'		
Foreman					_	on of Shift 333'
TO GRAIT					,	
DRII	LLING	CO	RING	TYPE SOIL		OTHER DELAYS
Time	Depth	Time	Depth		Time	Explanation
			·		7:35 to 7:50	Driving to location.
					7:50 to 1:00	Swaging pipe in line.
1 12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					1:00 to 2:00	Taking of swage-Stringing up tools
2:00 to 2:30	3251	Blue silt-	gravel-sand		-	
2:30 to 3:15	<u>330'</u>	Blue silt-	gravel-sand	, Showing basalt	formation	
3:15 to 4:00	333'	Hit basalt	at 330'			
						٠, ٨
	M					
<b>₹</b> %*	*·•*					
				,		
্কাঞ্চ				·		
		•		<del> </del>	ARKS	
				ole. Parted 431		
Swaged	pipe in line	e so I can g	get 8" bit p	est. Will drill	l all 8 inch 1	hole I can so I will not have to drive
the 6"	Pipe so mucl	h.		<u> </u>		
19.14		42W,		• •	· · · · · · · · · · · · · · · · · · ·	
· Str. www.	1					

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## DRILLING LOG

PROJECT NO.

Rig No. A.E.C. 22-3128		
Well No. 321-3	· -	٠,
DrillerRow	Depth begin	ninc
Foreman	Benth comple	_

	Date	4/28/53	
••	Shift		
Depth beginning of	Shift	333'	<u>, i </u>
Depth completion of		367'	, ;

DRI	LLING	Co	RING	TYPE SOIL	OTHER DELAYS	
Time	Depth	Time	Depth		Time	Explanation
	Basalt sta	rted at 3291			7:35 to 7:50	Driving to location.
1-1-					7:50 to 8:15	Testing and sampling water.
:15 to 10:00	335!	l ft Basali	. 1 ft mud	and gravel.		
0:00 to 10:3	) <u>3</u> 40'	1		Basalt, gravel	and chips,	
0 <u>:30 to 11:1</u>	5 3451	Greenish-b	lue silty sa	ind-Small grave	L imbeded.	
1:15 to 12:10		. ,	11	и и п	11	
2.10 to 12:3	5 <u>355'</u>	11 11	11	11 11 U	er ·	A
2:35 to 2:00		2 ft. of abo	ve=3 ft wit	h 4" Gravel		
:00 to 3:15	365 <b>'</b>	,	1	nd, with some	d' Gravel.	
:15 to 4:00	367'	11	п	1	11	
						• • • • • • • • • • • • • • • • • • • •

This layer of basalt is about 5! thick. First inter bed starts at 334!
Water was 52.7 ft from ISL. This water is from the top of the basalt. 333' to 334'-Basalt. Took me 12 hrs. to drill
this foot. Went into a break at 334'-337'. Green sandy mud, gravel and chips of basalt. Some rotten sand stone.
337' to 357' Greenish blue silty sand with small gravel imbedded in this formation. This silty sand is more like clay.
Tools dive and stick in it. Hand to mix. 357' to 367!-Same as above except gravel up to 4" die. Drills slow and hatd
All bails good.

1-6.28,	38 -	

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P	ROJ	EC T	NO.		

Rig K	. A.E.C. 22-	-3128
Xe 1 L	No 321-3	24
Drill	No. 321-3 er Row	:
E	William:	

	Date	4/30/53	
	Shift_		
Depth beginning of	Shift_	367'	
Depth completion of	Shift_	385'	

roreman		······································		Depth completio	n of Shift 305		
B DRILLING		CORING	TYPE SOIL		OTHER DELAYS		
Time (%)	or Depth	Time . Depth		Time.	Explanation		
				7:35 to 8:00	Driving to location and gassing a	ın.	
				B:00 to 8:30	Measuring and testing for water.		
8: <u>30 to 9:45</u> 5	370'	Ash-green sandy si	1t.			,	
9:45 to 12:00	375'*	Ash- Basalt grindi	ngs.*				
	· ·			12:00 to 12:20	Changing bits	`	
12:20 to 2:00	380°*	Basalt grindings-B	lack mud*				
2: <u>00 to 4:<b>00</b>  </u>	385 <b>'</b>	Basalt grindings-B	lack mud.		λ		
			·				
1 200							
6.4							
2,3,					, , , , , , , , , , , , , , , , , , , ,		
· STA							

	Water was 48.5 ft from ISL at 8:15 am.	:
	367' to 370'-Black ash and green sandy silt.	
+	370' to 385" Acts like small layer of basalt, then ash and gravel. This formation does not drill hard enough	
	for basalt. It is an ash and silt formation almost hard enough to be shale, with gravel inteded all through	



PROJECT NO.

Driller Ro	,	F:			Depth beginning	· •		
DRI	· · · · · · · · · · · · · · · · · · ·	CO	RING	TYPE SOIL	OTHER DELAYS			
Tine	Depth	Time	Depth		Time	Explanation		
	• *				7:35 to 7:50	Driving to location.		
					7:50 to 8:10			
8:10 to 8:45	3901	Ash, silty	sand, gra	vel				
8:45 to 9:45	3951	11 11	se te	green silt an	d sand.			
9:45 to 10:45	4001	Green sand	ly silt, sa	nd, gravel		o .		
10:45 to 12:15	405'	11 11	<del> </del>	<del> </del>	210 - 100	A 10 10 10 10 10 10 10 10 10 10 10 10 10		
12:15 to 2:15	410'	11 11	11 11	11 1	1 / four			
2:15 to 4:00	415!	t1 11	11	11				
			-					
				REM	ARKS			

Water was 48.1 ft from L.S.L. at 8:00 a.m.

385 to 393-ash, silty sand, gravel. 393 to 415'--layers of gravel and green sandy silt. This formation drills very slow. Hard to mix with water. Tools dive and stick. Lots of these rocks in the samples cave in from about 375' From 385 to 395'--gravel bed. This gravel caves in causing tools to hangup.

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PROJECT NO.				NO.	T	E¢	OJ	R	P
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			,	T ROUEUT 1	nv	
Rig No.A.E.C		·				Date <u>5/4/53</u>
Well No. 321						-Shift
Driller <u>Row</u>						g of Shift 415'
Foreman					Depth completion	n of Shift
DRI	LLIKĢ	CO	RING	TYPE SOIL		OTHER DELAYS
Time -	Depth	Time	Depth		Time	Explanation
A					7:35 to 7:50	Driving to location
· Service					7:50 to 8:05	Measuring water 46.3' from L.S.L.
:05 to 9:30	4201	Black mud,	gravel**,	sand**		
	·				9:30 to 10:15	Building up bit
:15 to 11:20	425'	*Redish bro	un mud, gr		J.	
:20 to 1:10	4301	*Redish bro	wn mud. gr	evel. sand	se all	
:10 to 2:45	4351	*Soft redis		-1	Solla,	λ
:45 to 4:00.	ftfO:	*Soft redis	n brown ba	salt	_/	
<b>1376</b>	1. a.	·				
46.	1	1		:		
	Ċ.			REI	MARKS	
Water was	46.3' from	L.S.L. at 8:	05.a.m. W	ater is 1.8' hi	gher than on Fri	day morning 5/1/53.
Gravel fro	m 385' to 3	95' comes in	n causing t	ools to hang up	-from 415' to 44	O' gravel is foreign
		ery black wi	_			
•					-	
I would say	that basel	t started at	414'			

Cuttings like top of gastreous basalt or honeycomb.

^{**} Gravel and sand and silt is coming from 385' to 395' Gravel, sand and silt is foreign.

DRILLING LOG

PROJECT NO. _____ PROJECT NO.

Driller Row Foreman				·	Depth completio	g of Shift 440' on of Shift 461' End of 8' Hole
DRIL			ORING	TYPE SOIL	<del> </del>	OTHER DELAYS  Explanation
Time 🦠	Depth	Time	Depth		Time	Explanation
					7:35 to 7:50	Driving to location
(1 ⁸ / ₂ )					7:50 to 8:05	Measuring and testing water.
					8:05 to 8:20	Bailing out hole
8:20 to 10:05	4451	Basalt-Ho	neycomb			•
0:05 to 11:35	4501	' 11	It			
11:35 to 1:35	455!	11	11			
1:35 to 4:00	461'	11	" (Harder	· ·		Α
		,				
						and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s
1						
	45.9 ft f	rom L.S.L.	at 8:00 a.m.	·	t higher than c	on 5/4/53
• ———				fast for basalt		
hest += hi	60/ - Basa	lt, Heavy.	More dense.	Took 21 hrs.	to drill 5 ft.	
477: 60 40						
	S" Pipe in	this basal	t			

P	ROJ	ECT	NO.	

Rig	No.	A.E.C.	22-3128	_
		321		
Dri	ller.	⇒∢ Row		
		45 %		

			Date	5/6/53	
,			Shift_		•
Depth	beginning	of	Shift_	461' End of 8" Hole.	·
	completion				<del></del>

DRILLING		CORING		TYPE SOIL	OTHER DELAYS	
Time	Depth	Time	Depth		Time	Explanation
					7:35 to 7;50	Driving to location.
					7:50 to 8:15	Measuring and testing water.
					8:15 to 1:30	Going to 100 east after tools and pipe
					1:30 to 2:15	Putting on Swab
					2:15 to 4:00	Swading well
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4.05					·	

	Water was 45.2 ft from L.S.L. at 8:05 a.m. Water is .7 ft higher than on 5/5/53.	•
-		
	Ran swab 10 times. I pulled 400 gallons of water at each pull. It took the water level donw 1.5 ft. It would	
	recover to within 6? within 15 seconds.	1-
	Water is 45.1 ft from L.S.L. at 8:30 a.m. May 7, 1953. This looks like good water well. I don't know which	11
	formation this large water volumes comes from. This well does not make any sand. Well is cleaned out to bottom.	[tm]
	Does not cave.	





		DRILLING	೬೦ ಆ 🕝	PROJECT NO.
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DRILLER"	FOREMAN		SHIFT	The second section of Sint 1
DRILLING	ORING	TYPE SOIL		OTHER DELAYS
TIME TIME	DEPTH	7772 8012	TIME	EXPLANATION
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1/30 STA	IC MATER L	cirl	5:30	Transmit BIC down I radiale Cifuran
5'20 T	45	• 6	6:30	Mareine To Mell No. 18-42
16:30			1/30	PAILINE
//- / 3 (2)			8:20	PALLING AND MOVEING BIG TONAT
8,70			7:30	WILL SITE MOVEING RICE
7:0	36-6	10	10:30	SATTING OF RIC AND BAILING.
10:00			11:30	Particle.
11:0			12'20	Reached 456 Could NOT Got deeper
12000			1:30	RIGING L' PRAFORATIA
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PROJECT NO. JAJ-197A DRILLING LOG DEPTH BEGINNING OF SHIFT FOREMAN CORING TYPE SOIL TIME DEPTH TIME DEPTH TIME REMARKS

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الهجعة واستأف بالإيرافات لامن الأقاران والمتما وال

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34.			
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 Well Number
 699-S6-E4C

 Coordinates
 P - S 006100 - E 003781

 Elevation of Casing
 432.98'

 Water Level
 62'

 Date
 8"

 Casing Dia
 Elength

 Driller
 C. H. Row

 Date of Drilling
 5-5-53

 Total Depth
 461'

Depth		Cc 10	ompletion <u>Perf. 260'-240':4 c</u> 00'-45':2 cuts/rnd,1 rnd/ft.	uts/rnd,l Installed	<u>rnd/</u> i 3 pi	ezometer tubes at 449',260',190'
in Feet	Γ	0'	Sand	_ [		
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	-					
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		25'	Gravel, sand			
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40	$\dashv$	40 '	Fine gravel,sand	_ 190 -	1	
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50	+	İ		200 _	200'	2' gravel, sand, silt, 3' gravel,
						silt,sand
60	$\dashv$	60 '	Sand,gravel	_ 210 -	205'	Green silt,sand,fine gravel
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			`		0001	Gran mile anall shalo sand small
80	7			230 -	230'	Green silt, small shale sand, small
•	-		Sand,gravel,silt	— 240 —	235'	gravel  3' green silt,2'gravel & sand
. <b>9</b> 0	7	90'	Heavy silt,sand,gravel	240 _	245'	Thick lava mud, basalt, gravel, sand
		•			243	THICK Tava muu, basar e, graver, samu
100	7			250 —	•	
				260 -	260'	Sandy bluish-green siflt, little
110	٦					gravel
120		120'	Gray-blue silt,sand,gravel	270		
120		120	dia, biac sinasana, giana,			
130				— 280 –	280.1	Sand, gravel, green silt
					285	Basalt mud, gravel, sand
. 140				290 -	2881	
. 140						·
150	4			300 -	300'	Dark silt

Slimy black-gray mud 305 Feet The second second 2 520 Recorded Water Level 320 5-5-53 Blue silt, gravel, sand 325 Basalt 40 Charles on Persons 530 -Artesian from confined aquifer 330 -333 Green sandy silt mud, basalt 540 -340 340 ' gravel & chips 550 -Greenish-blue silty sand w/ 350 some 4" gravel 360 560 -Ash, green sandy silt 370 370 570 Ash, basalt grindings 375 Basalt grindings, black mud 380' 580 -380 590 390 Ash, silty sand, gravel 390 1 Ash, silty sand, gravel, green 400 600 silt,sand Green sandy silt, sand, gravel 410 610 -420 620 · Black mud, gravel, sand 420 Reddish brn mud, gravel, sand 425 430 630 = 435 Soft reddish brn basalt 640. 440 445 Basalt-honeycomb 450 650 460 660 461 Basalt-honeycomb WELL COMPLETE 470 670 -480 680 · 490 690 -500 700

C3534 C3534 ation System

Qu WIS again

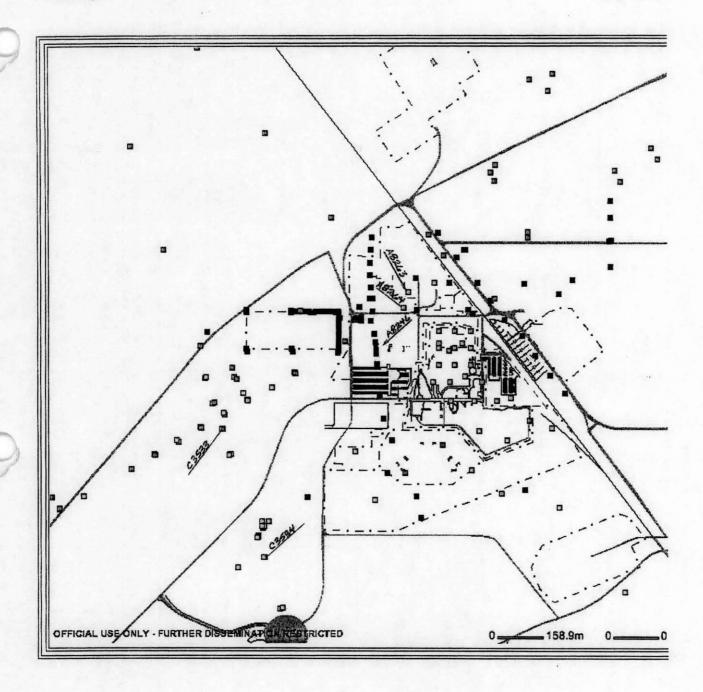
# WIS Interface - Survey Information - Horizontal

		vey milorination the			MEASUREMENT METHOD		FACTING	SURVEY UNITS	QUALIFIER
WELL_ID	WELL_NAME	SURVEY_CONTRACTOR	DATUM_TYPE	SURVEY_DATE	MEASUREMENT_METHOD	NORTHING	EASTING	301(12	
				05/04/0004	GPS	126497.485	588886.722		G
C3534	C3534	11010		***************************************	0.0		Institution in the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second seco	330000	

DESCRIPTION OF WORK: Perform ground scans (20'x20') around staked well ocations to locate possible well casings.  DISTRIBUTION SOR SKETCH DISTRIBUTION SOR OR  E.C. Rafuse 1  B.J. Howard 1  G.G. Kelty 1  C.S. Wrright 1  W.D. Webber 1  DATE OF FIELD INVESTIGATION: 10/1/2007		SCAN DATA R	EPORT					73-357	
Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date   Date	oject No.:	Title: Ground Scans/Well Dec	commissioning	C3534					
DISTRIBUTION   Soft   SKETCH   Cardions to locate possible well casings.   DISTRIBUTION   Soft   SKETCH   Cardions to locate possible well casings.   DISTRIBUTION   Soft   SKETCH   Cardions to locate possible well casings.   DISTRIBUTION   Soft   SKETCH   Cardions to locate possible well casings.   DISTRIBUTION   Soft   SKETCH   Cardions to locate possible well casings.   DISTRIBUTION   Soft   SKETCH   Cardions to locate possible well casings.   DISTRIBUTION   Soft   SKETCH   Cardions   Cardions   Cardions   Cardions   Cardions   Cardions   Cardions   Cardions   Cardions   Cardions   Cardions   Cardions   Cardions   Cardions   Cardions   Cardions   Cardions   Cardions   Cardions   Cardions   Cardions   Cardions   Cardions   Cardions   Cardions   Cardions   Cardions   Cardions   Cardions   Cardions   Cardions   Cardions   Cardions   Cardions   Cardions   Cardions   Cardions   Cardions   Cardions   Cardions   Cardions   Cardions   Cardions   Cardions   Cardions   Cardions   Cardions   Cardions   Cardions   Cardions   Cardions   Cardions   Cardions   Cardions   Cardions   Cardions   Cardions   Cardions   Cardions   Cardions   Cardions   Cardions   Cardions   Cardions   Cardions   Cardions   Cardions   Cardions   Cardions   Cardions   Cardions   Cardions   Cardions   Cardions   Cardions   Cardions   Cardions   Cardions   Cardions   Cardions   Cardions   Cardions   Cardions   Cardions   Cardions   Cardions   Cardions   Cardions   Cardions   Cardions   Cardions   Cardions   Cardions   Cardions   Cardions   Cardions   Cardions   Cardions   Cardions   Cardions   Cardions   Cardions   Cardions   Cardions   Cardions   Cardions   Cardions   Cardions   Cardions   Cardions   Cardions   Cardions   Cardions   Cardions   Cardions   Cardions   Cardions   Cardions   Cardions   Cardions   Cardions   Cardions   Cardions   Cardions   Cardions   Cardions   Cardions   Cardions   Cardions   Cardions   Cardions   Cardions   Cardions   Cardions   Cardions   Cardions   Cardions   Cardions   Cardions   Cardions   Cardions   Cardions   C					Date:		Reviewe	:	Page
Seations to locate possible well casings.    Survey File	ь No.: 5400811.1225400 CA10	1			10/4/07		fany	Henke	1 of 1
Survey File OR OR OR OR OR OR OR OR OR OR OR OR OR	ESCRIPTION OF WORK: Perfor	m ground scans (20'x20') aro	ound staked w	ell	DISTRIBU	JTION			DWG
B.J. Howard 1   G.G. Kelty 1   C.S. Wrright 1   W.D. Webber 1   W.D. Webber 1   W.D. Webber 1   W.D. Webber 1   W.D. Webber 1   W.D. Webber 1   W.D. Webber 1   W.D. Webber 1   W.D. Webber 1   W.D. Webber 1   W.D. Webber 1   W.D. Webber 1   W.D. Webber 1   W.D. Webber 1   W.D. Webber 1   W.D. Webber 1   W.D. Webber 1   W.D. Webber 1   W.D. Webber 1   W.D. Webber 1   W.D. Webber 1   W.D. Webber 1   W.D. Webber 1   W.D. Webber 1   W.D. Webber 1   W.D. Webber 1   W.D. Webber 1   W.D. Webber 1   W.D. Webber 1   W.D. Webber 1   W.D. Webber 1   W.D. Webber 1   W.D. Webber 1   W.D. Webber 1   W.D. Webber 1   W.D. Webber 1   W.D. Webber 1   W.D. Webber 1   W.D. Webber 1   W.D. Webber 1   W.D. Webber 1   W.D. Webber 1   W.D. Webber 1   W.D. Webber 1   W.D. Webber 1   W.D. Webber 1   W.D. Webber 1   W.D. Webber 1   W.D. Webber 1   W.D. Webber 1   W.D. Webber 1   W.D. Webber 1   W.D. Webber 1   W.D. Webber 1   W.D. Webber 1   W.D. Webber 1   W.D. Webber 1   W.D. Webber 1   W.D. Webber 1   W.D. Webber 1   W.D. Webber 1   W.D. Webber 1   W.D. Webber 1   W.D. Webber 1   W.D. Webber 1   W.D. Webber 1   W.D. Webber 1   W.D. Webber 1   W.D. Webber 1   W.D. Webber 1   W.D. Webber 1   W.D. Webber 1   W.D. Webber 1   W.D. Webber 1   W.D. Webber 1   W.D. Webber 1   W.D. Webber 1   W.D. Webber 1   W.D. Webber 1   W.D. Webber 1   W.D. Webber 1   W.D. Webber 1   W.D. Webber 1   W.D. Webber 1   W.D. Webber 1   W.D. Webber 1   W.D. Webber 1   W.D. Webber 1   W.D. Webber 1   W.D. Webber 1   W.D. Webber 1   W.D. Webber 1   W.D. Webber 1   W.D. Webber 1   W.D. Webber 1   W.D. Webber 1   W.D. Webber 1   W.D. Webber 1   W.D. Webber 1   W.D. Webber 1   W.D. Webber 1   W.D. Webber 1   W.D. Webber 1   W.D. Webber 1   W.D. Webber 1   W.D. Webber 1   W.D. Webber 1   W.D. Webber 1   W.D. Webber 1   W.D. Webber 1   W.D. Webber 1   W.D. Webber 1   W.D. Webber 1   W.D. Webber 1   W.D. Webber 1   W.D. Webber 1   W.D. Webber 1   W.D. Webber 1   W.D. Webber 1   W.D. Webber 1   W.D. Webber 1   W.D. Webber 1   W.D. Webber 1   W.D. Webber 1   W.D. Webber 1	ocations to locate possible wel	l casings.			Survey Fil	е	OR	OR	
DATE OF FIELD INVESTIGATION: 10/1/2007  Weather: Temp 70°F Wind MPH Cloudy Clear P. Cloudy Pog Depth of Investigation 3 feet    Cloudy Clear P. Cloudy Pog Depth of Investigation 3 feet					E.C. Rafus	se	1		
DATE OF FIELD INVESTIGATION: 10/1/2007  Weather: Temp 70°F Wind MPH Cloudy Glear P. Cloudy Fog Depth of Investigation 3 feet  Equipment Used: Required Functional Checks Current/Completed  Solfo Hz detector (for energized lines) Current/Completed  Radio Frequency Electromagnetics (RF) Ground Penetrating Radar (GPR)  X Other (identify) Schonstedt metal locator  GPR Antenna(s) Used: 1000 MHz 500 MHz 400 MHz 300 MHz  Documentation Provided: None  Limits of Investigation:  EQUIPMENT LIMITATIONS: 1. Objects made of concrete, clay pipe, PVC pipe, and fiberglass pipe are generally not detectable. 2. The transducers have a horizontal scanning limit to existing structures: the 1000 MHz is within 6 in. of an existing structure 500 MHz is within 1 ft. of an existing structure; the 400 MHz is within 1 ft. of an existing structure; the 400 MHz is within 1 ft. of an existing structure; the 400 MHz is within 1 ft. of an existing structure; the 400 MHz is within 1 ft. of an existing structure; the 400 MHz is within 1 ft. of an existing structure; the 400 MHz is within 1 ft. of an existing structure; the 400 MHz is within 1 ft. of an existing structure; the 400 MHz is within 1 ft. of an existing structure; the 400 MHz is within 1 ft. of an existing structure; the 400 MHz is within 1 ft. of an existing structure; the 400 MHz is within 1 ft. of an existing structure; the 400 MHz is within 1 ft. of an existing structure; the 400 MHz is within 1 ft. of an existing structure; the 400 MHz is within 1 ft. of an existing structure; the 400 MHz is within 1 ft. of an existing structure; the 400 MHz is within 1 ft. of an existing structure; the 400 MHz is within 1 ft. of an existing structure; the 400 MHz is within 1 ft. of an existing structure; the 400 MHz is within 1 ft. of an existing structure; the 400 MHz is within 1 ft. of an existing structure; the 400 MHz is within 1 ft. of an existing structure; and the 300 MHz is 3 ft. of an existing structure.					B.J. Howa	rd	1		
DATE OF FIELD INVESTIGATION: 10/1/2007  Weather: Temp 70°F					G.G. Kelty	y	1		
Weather: Temp 70°F Wind MPH Cloudy   Soil Conditions:   Rocky   Sandy   Wet   Depth of Investigation   Rocky   Sandy   Wet   Depth of Investigation   Rocky   Sandy   Wet   Depth of Investigation   Rocky   Sandy   Wet   Depth of Investigation   Required Functional Checks   Current/Completed   Current/Completed   Required Functional Checks   Current/Completed   Required Functional Checks   Current/Completed   Required Functional Checks   Radio Frequency Electromagnetics (RF)   Required Functional Checks   Redio Frequency Electromagnetics (RF)   Required Functional Checks   Redio Frequency Electromagnetics (RF)   Required Functional Checks   Redio Frequency Electromagnetics (RF)   Redio Frequency Electromagnetics (RF)   Redio Frequency Electromagnetics (RF)   Redio Frequency Electromagnetics (RF)   Redio Frequency Electromagnetics (RF)   Redio Frequency Electromagnetics (RF)   Redio Frequency Electromagnetics (RF)   Redio Frequency Electromagnetics (RF)   Redio Frequency Electromagnetics (RF)   Redio Frequency Electromagnetics (RF)   Redio Frequency Electromagnetics (RF)   Redio Frequency Electromagnetics (RF)   Redio Frequency Electromagnetics (RF)   Redio Frequency Electromagnetics (RF)   Redio Frequency Electromagnetics (RF)   Required Functional Checks   Current/Completed   Required Functional Checks   Current/Completed   Required Functional Checks   Current/Completed   Required Functional Checks   Current/Completed   Required Functional Checks   Current/Completed   Required Functional Checks   Current/Completed   Required Functional Checks   Current/Completed   Required Functional Checks   Current/Completed   Required Functional Checks   Current/Completed   Required Functional Checks   Current/Completed   Required Functional Checks   Current/Completed   Required Functional Checks   Current/Completed   Required Functional Checks   Current/Completed   Required Functional Checks   Current/Completed   Required Functional Checks   Current/Completed   Required Functional Checks   Current/Completed   Required Functi					C.S. Wrrig	ght	1		
Weather: Temp 70°F Wind MPH Soil Conditions: Rocky Sandy Wet Sandy Depth of Investigation 3 feet    Cloudy   Clear   P. Cloudy   Fog   Depth of Investigation 3 feet					W.D. Wel	ber	1		
Weather: Temp 70°F Wind MPH Cloudy Fog Depth of Investigation 3 feet    Cloudy   Clear   P. Cloudy   Fog   Depth of Investigation 3 feet    Equipment Used:									ļ <u>-</u>
Weather: Temp 70°F Wind MPH Cloudy Clear P. Cloudy Fog Depth of Investigation 3 feet  Equipment Used:  50/60 Hz detector (for energized lines) Radio Frequency Electromagnetics (RF) Ground Penetrating Radar (GPR) Other (identify) Schonstedt metal locator  GPR Antenna(s) Used: 1000 MHz 500 MHz 400 MHz 300 MHz Limits of Investigation:  EQUIPMENT LIMITATIONS:  1. Objects made of concrete, clay pipe, PVC pipe, and fiberglass pipe are generally not detectable.  2. The transducers have a horizontal scanning limit to existing structures: the 1000 MHz is within 6 in. of an existing structure 3 ft. of an existing structure; the 400 MHz is within 1 ft. of an existing structure; the 400 MHz is within 1 ft. of an existing structure.  Discussion of Findings: Client is advised that subsurface location scanning is not 100% accurate. Client is herby notified the equipment limitations, soil /concrete conditions, utility congestion and other factors beyond Contractor control may cause su objects to be missed or incorrectly located. Client assumes such risk. It is critical that Client delegate responsibility to its employees, staff and management for application of safety controls during excavation, cutting or drilling activities to prevent injury or property damage. Contractor shall not be liable for any injuries or damages arising from or caused by subsurface of the property damage.			•						
Weather: Temp 70°F  Wind  MPH  Soil Conditions: Rocky  Sandy  Wet      Cloudy	DATE OF FIELD INVESTI	GATION: 10/1/2007	· · · · · · · · · · · · · · · · · · ·						<u>.</u>
Cloudy   Clear   P. Cloudy   Fog   Depth of Investigation   3   feet			Soil Conditio	ns:	Rocky	⊠ Sa	andy [	Wet	Dry
Equipment Used:  50/60 Hz detector (for energized lines)  Radio Frequency Electromagnetics (RF)  Ground Penetrating Radar (GPR)  Other (identify) Schonstedt metal locator  GPR Antenna(s) Used: 1000 MHz 500 MHz 400 MHz 300 M  Documentation Provided: None  Limits of Investigation:  EQUIPMENT LIMITATIONS:  1. Objects made of concrete, clay pipe, PVC pipe, and fiberglass pipe are generally not detectable.  2. The transducers have a horizontal scanning limit to existing structures: the 1000 MHz is within 6 in. of an existing structure 3 ft. of an existing structure; the 400 MHz is within 1 ft. of an existing structure; and the 300 MHz is 3 ft. of an existing structure.  Discussion of Findings: Client is advised that subsurface location scanning is not 100% accurate. Client is herby notified the equipment limitations, soil /concrete conditions, utility congestion and other factors beyond Contractor control may cause su objects to be missed or incorrectly located. Client assumes such risk. It is critical that Client delegate responsibility to its employees, staff and management for application of safety controls during excavation, cutting or drilling activities to prevent injury or property damage. Contractor shall not be liable for any injuries or damages arising from or caused by subsurface of the property damage.			Depth of Inve	estigation	3	feet			
Equipment Used:  50/60 Hz detector (for energized lines)  Radio Frequency Electromagnetics (RF)  Ground Penetrating Radar (GPR)  X Other (identify) Schonstedt metal locator  GPR Antenna(s) Used:			<u> </u>				S		
Radio Frequency Electromagnetics (RF) Ground Penetrating Radar (GPR) X Other (identify) Schonstedt metal locator  GPR Antenna(s) Used: 1000 MHz 500 MHz 400 MHz 300 M Documentation Provided: None  Limits of Investigation:  EQUIPMENT LIMITATIONS:  1. Objects made of concrete, clay pipe, PVC pipe, and fiberglass pipe are generally not detectable.  2. The transducers have a horizontal scanning limit to existing structures: the 1000 MHz is within 6 in. of an existing structure 3 ft. of an existing structure; the 400 MHz is within 1 ft. of an existing structure; and the 300 MHz is 3 ft. of an existing structure.  Discussion of Findings: Client is advised that subsurface location scanning is not 100% accurate. Client is herby notified the equipment limitations, soil /concrete conditions, utility congestion and other factors beyond Contractor control may cause su objects to be missed or incorrectly located. Client assumes such risk. It is critical that Client delegate responsibility to its employees, staff and management for application of safety controls during excavation, cutting or drilling activities to prevent injury or property damage. Contractor shall not be liable for any injuries or damages arising from or caused by subsurface of				Current	Completed				
Ground Penetrating Radar (GPR)  X Other (identify) Schonstedt metal locator  GPR Antenna(s) Used: 1000 MHz 500 MHz 400 MHz 300 M  Documentation Provided: None  Limits of Investigation:  EQUIPMENT LIMITATIONS:  1. Objects made of concrete, clay pipe, PVC pipe, and fiberglass pipe are generally not detectable.  2. The transducers have a horizontal scanning limit to existing structures: the 1000 MHz is within 6 in. of an existing structure 500 MHz is within 1 ft. of an existing structure; the 400 MHz is within 1 ft. of an existing structure; and the 300 MHz is 3 ft. of an existing structure.  Discussion of Findings: Client is advised that subsurface location scanning is not 100% accurate. Client is herby notified the equipment limitations, soil /concrete conditions, utility congestion and other factors beyond Contractor control may cause sue objects to be missed or incorrectly located. Client assumes such risk. It is critical that Client delegate responsibility to its employees, staff and management for application of safety controls during excavation, cutting or drilling activities to prevent injury or property damage. Contractor shall not be liable for any injuries or damages arising from or caused by subsurface of the contractor shall not be liable for any injuries or damages arising from or caused by subsurface of the contractor shall not be liable for any injuries or damages arising from or caused by subsurface of the contractor shall not be liable for any injuries or damages arising from or caused by subsurface of the contractor shall not be liable for any injuries or damages arising from or caused by subsurface of the contractor shall not be liable for any injuries or damages arising from or caused by subsurface of the contractor shall not be liable for any injuries or damages arising from or caused by subsurface of the contractor shall not be liable for any injuries or damages.	<del></del>								
Ground Penetrating Radar (GFR)  X Other (identify) Schonstedt metal locator  GPR Antenna(s) Used: 1000 MHz 500 MHz 400 MHz 300 M  Documentation Provided: None  Limits of Investigation:  EQUIPMENT LIMITATIONS:  1. Objects made of concrete, clay pipe, PVC pipe, and fiberglass pipe are generally not detectable.  2. The transducers have a horizontal scanning limit to existing structures: the 1000 MHz is within 6 in. of an existing structure 500 MHz is within 1 ft. of an existing structure; the 400 MHz is within 1 ft. of an existing structure; and the 300 MHz is 3 ft. of an existing structure.  Discussion of Findings: Client is advised that subsurface location scanning is not 100% accurate. Client is herby notified the equipment limitations, soil /concrete conditions, utility congestion and other factors beyond Contractor control may cause su objects to be missed or incorrectly located. Client assumes such risk. It is critical that Client delegate responsibility to its objects to be missed or incorrectly located. Client assumes such risk. It is critical that Client delegate responsibility to its employees, staff and management for application of safety controls during excavation, cutting or drilling activities to prevent injury or property damage. Contractor shall not be liable for any injuries or damages arising from or caused by subsurface of	Radio Frequency Ele	ectromagnetics (RF)							
GPR Antenna(s) Used: 1000 MHz 500 MHz 400 MHz 300 M  Documentation Provided: None  Limits of Investigation:  EQUIPMENT LIMITATIONS:  1. Objects made of concrete, clay pipe, PVC pipe, and fiberglass pipe are generally not detectable.  2. The transducers have a horizontal scanning limit to existing structures: the 1000 MHz is within 6 in. of an existing structure 500 MHz is within 1 ft. of an existing structure; the 400 MHz is within 1 ft. of an existing structure; and the 300 MHz is 3 ft. of an existing structure.  Discussion of Findings: Client is advised that subsurface location scanning is not 100% accurate. Client is herby notified the equipment limitations, soil /concrete conditions, utility congestion and other factors beyond Contractor control may cause sue objects to be missed or incorrectly located. Client assumes such risk. It is critical that Client delegate responsibility to its employees, staff and management for application of safety controls during excavation, cutting or drilling activities to prevent injury or property damage. Contractor shall not be liable for any injuries or damages arising from or caused by subsurface of	Ground Penetrating	Radar (GPR)							
Documentation Provided: None  Limits of Investigation:  EQUIPMENT LIMITATIONS:  1. Objects made of concrete, clay pipe, PVC pipe, and fiberglass pipe are generally not detectable.  2. The transducers have a horizontal scanning limit to existing structures: the 1000 MHz is within 6 in. of an existing structure; 500 MHz is within 1 ft. of an existing structure; the 400 MHz is within 1 ft. of an existing structure; and the 300 MHz is 3 ft. of an existing structure.  Discussion of Findings: Client is advised that subsurface location scanning is not 100% accurate. Client is herby notified the equipment limitations, soil /concrete conditions, utility congestion and other factors beyond Contractor control may cause su objects to be missed or incorrectly located. Client assumes such risk. It is critical that Client delegate responsibility to its employees, staff and management for application of safety controls during excavation, cutting or drilling activities to prevent injury or property damage. Contractor shall not be liable for any injuries or damages arising from or caused by subsurface or	X Other (identify) S	Schonstedt metal locator					<del></del>		20.207
Limits of Investigation:  EQUIPMENT LIMITATIONS:  1. Objects made of concrete, clay pipe, PVC pipe, and fiberglass pipe are generally not detectable.  2. The transducers have a horizontal scanning limit to existing structures: the 1000 MHz is within 6 in. of an existing structure, 500 MHz is within 1 ft. of an existing structure; the 400 MHz is within 1 ft. of an existing structure; and the 300 MHz is 3 ft. of an existing structure.  Discussion of Findings: Client is advised that subsurface location scanning is not 100% accurate. Client is herby notified the equipment limitations, soil /concrete conditions, utility congestion and other factors beyond Contractor control may cause su objects to be missed or incorrectly located. Client assumes such risk. It is critical that Client delegate responsibility to its employees, staff and management for application of safety controls during excavation, cutting or drilling activities to prevent injury or property damage. Contractor shall not be liable for any injuries or damages arising from or caused by subsurface or	GPR Antenna(s) Used:	1000 MHz	50	0 MHz		400 N	AHz	3(	)U MHZ
EQUIPMENT LIMITATIONS:  1. Objects made of concrete, clay pipe, PVC pipe, and fiberglass pipe are generally not detectable.  2. The transducers have a horizontal scanning limit to existing structures: the 1000 MHz is within 6 in. of an existing structure; 500 MHz is within 1 ft. of an existing structure; the 400 MHz is within 1 ft. of an existing structure; and the 300 MHz is 3 ft. of an existing structure.  Discussion of Findings: Client is advised that subsurface location scanning is not 100% accurate. Client is herby notified the equipment limitations, soil /concrete conditions, utility congestion and other factors beyond Contractor control may cause sure objects to be missed or incorrectly located. Client assumes such risk. It is critical that Client delegate responsibility to its employees, staff and management for application of safety controls during excavation, cutting or drilling activities to prevent injury or property damage. Contractor shall not be liable for any injuries or damages arising from or caused by subsurface or		one							
<ol> <li>Objects made of concrete, clay pipe, PVC pipe, and fiberglass pipe are generally not detectable.</li> <li>The transducers have a horizontal scanning limit to existing structures: the 1000 MHz is within 6 in. of an existing structure; 500 MHz is within 1 ft. of an existing structure; the 400 MHz is within 1 ft. of an existing structure; and the 300 MHz is 3 ft. of an existing structure.</li> <li>Discussion of Findings: Client is advised that subsurface location scanning is not 100% accurate. Client is herby notified the equipment limitations, soil /concrete conditions, utility congestion and other factors beyond Contractor control may cause sure objects to be missed or incorrectly located. Client assumes such risk. It is critical that Client delegate responsibility to its employees, staff and management for application of safety controls during excavation, cutting or drilling activities to prevent injury or property damage. Contractor shall not be liable for any injuries or damages arising from or caused by subsurface or injury or property damage.</li> </ol>	Limits of Investigation:								
<ol> <li>Objects made of concrete, clay pipe, PVC pipe, and fiberglass pipe are generally not detectable.</li> <li>The transducers have a horizontal scanning limit to existing structures: the 1000 MHz is within 6 in. of an existing structure; 500 MHz is within 1 ft. of an existing structure; the 400 MHz is within 1 ft. of an existing structure; and the 300 MHz is 3 ft. of an existing structure.</li> <li>Discussion of Findings: Client is advised that subsurface location scanning is not 100% accurate. Client is herby notified the equipment limitations, soil /concrete conditions, utility congestion and other factors beyond Contractor control may cause su objects to be missed or incorrectly located. Client assumes such risk. It is critical that Client delegate responsibility to its employees, staff and management for application of safety controls during excavation, cutting or drilling activities to prevent injury or property damage. Contractor shall not be liable for any injuries or damages arising from or caused by subsurface or injury or property damage.</li> </ol>		2210		<del></del>					
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Print Map Page 1 of 1



## WELL SURVEY DATA REPORT **ERC Project:** Well C3534 Prepared By: Jeff McTighe Company: Bechtel Hanford Inc. Date Requested: 05-21-2001 Requestor: Linda Dietz, John Auten Date of Survey: 05-21-2001 Surveyor: Jeff McTighe ERC Point of Contact: Linda Dietz Survey Co. Point of Contact: Linda Dietz Description of Work: A GPS RTK Horizontal Datum: NAD83(91) survey was performed with a Trimble Vertical Datum: NAVD88 4000ssi and the site-wide base stationrelated equipment. Coordinates were Units: Meters sampled to a "X", which was scribed on the Hanford Area Designation: North rim of the steel casing. Coordinate System: Washington State Plane Coordinates (South Zone) Horizontal Control Monuments: BASE Vertical Control Monuments: BASE Well Name Well ID Easting Northing Elevation C3534 C3534 588886.722 126497.485 143.078 Notes: Surveyor Statement: I, Jeff McTighe, am not a licensed surveyor.